



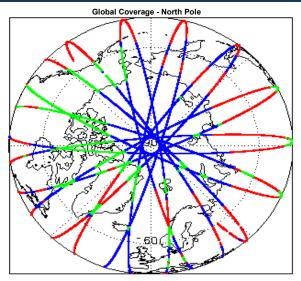
# 1. Overview

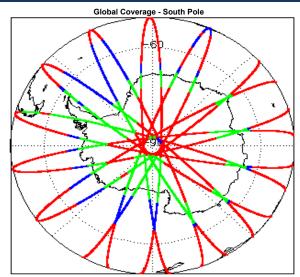
Report Production Date:	22-Feb-2019
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

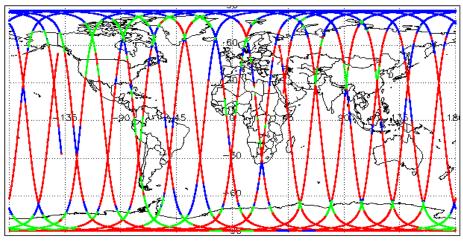
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2 and 5.2
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

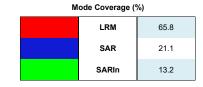
Mission / Instru	ment News
23-Jan-2019	None
24-Jan-2019	SIRAL unavailability on 24-Jan-2019 from 11:57:43 to 12:16:02 due to planned on-board maintanance. Star Tracker unavailability from 10:19:25 to 12:02:27.
25-Jan-2019	Nothing planned

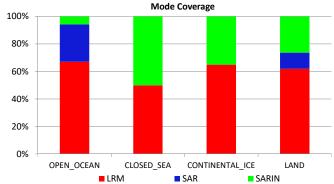
# 2. Global Coverage

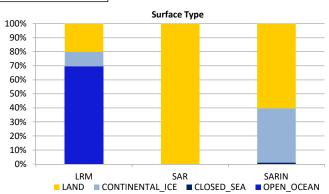












# 3. Instrument Configuration

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_20190124T051959_20190124T052001_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20190124T051809_20190124T051810_C001.DBL	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_220190124T052000_20190124T052001_C001.DBL	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:

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## 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: 10

	Test Failed	Description
CS_OFFL_SIR_LRM_220190124T000503_20190124T002304_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_220190124T003554_20190124T003725_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_220190124T011138_20190124T011428_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_220190124T011628_20190124T012154_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190124T012748_20190124T015000_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_220190124T015246_20190124T020140_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_220190124T023357_20190124T025345_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_220190124T025552_20190124T030052_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190124T030656_20190124T033951_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_220190124T040536_20190124T042829_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_220190124T043804_20190124T043956_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190124T044639_20190124T050419_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_220190124T050902_20190124T051739_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_220190124T053638_20190124T055301_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_220190124T055515_20190124T060951_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_220190124T062555_20190124T064123_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_220190124T064324_20190124T065246_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_220190124T072103_20190124T073047_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_220190124T073723_20190124T075156_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_220190124T075452_20190124T080312_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190124T080528_20190124T082218_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_220190124T082442_20190124T082654_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_220190124T085417_20190124T085434_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_220190124T090412_20190124T093119_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_220190124T093632_20190124T094135_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190124T094427_20190124T100958_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_220190124T104148_20190124T105256_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_220190124T105834_20190124T110907_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error

Height Error (Retracker 2). Backscatter Error (Retracker 2). Backs
Enror (Retracker 2)  CS_OFFL_SIR_LRM_2_20190124T145805_2001  CS_OFFL_SIR_LRM_2_20190124T145812_20190124T150055_C001  Elegist Error (Retracker 2). Backscatter Error (
Error (Retracker 2)  Error (Re
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Height Error (Retracker 2)  Height Error (Retracker 3)  From Retracker 3 for one or more records  From Retracker 3)  From Retracker 3 for one or more records  From Retracker 2)  From Retracker 3)  From Retracker 3)
CS_OFFL_SIR_LRM_2_20190124T162534_20190124T166531_C001  CS_OFFL_SIR_LRM_2_20190124T162504_20190124T172345_C001  CS_OFFL_SIR_LRM_2_20190124T172826_20190124T172923_C001  CS_OFFL_SIR_LRM_2_20190124T172826_20190124T172923_C001  CS_OFFL_SIR_LRM_2_20190124T172826_20190124T172923_C001  CS_OFFL_SIR_LRM_2_20190124T172839_20190124T172800_C001  CS_OFFL_SIR_LRM_2_20190124T182839_20190124T18460_C001  CS_OFFL_SIR_LRM_2_20190124T180304_20190124T18460_C001  CS_OFFL_SIR_LRM_2_20190124T180304_20190124T18464_C001  CS_OFFL_SIR_LRM_2_20190124T188582_20190124T18464_C001  CS_OFFL_SIR_LRM_2_20190124T188882_20190124T18464_C001  CS_OFFL_SIR_LRM_2_20190124T181858_20190124T19454_C001  CS_OFFL_SIR_LRM_2_20190124T185827_20190124T194544_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T194541_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T194541_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20
CS_OFFL_SIR_LRM_2_20190124T172802_20190124T172345_C001  CS_OFFL_SIR_LRM_2_20190124T171650_20190124T172345_C001  CS_OFFL_SIR_LRM_2_20190124T172826_20190124T17293_C001  CS_OFFL_SIR_LRM_2_20190124T172826_20190124T17293_C001  CS_OFFL_SIR_LRM_2_20190124T172839_20190124T174600_C001  CS_OFFL_SIR_LRM_2_20190124T172839_20190124T18400_C001  CS_OFFL_SIR_LRM_2_20190124T180304_20190124T181644_C001  CS_OFFL_SIR_LRM_2_20190124T181858_20190124T183043_C001  CS_OFFL_SIR_LRM_2_20190124T185827_20190124T183043_C001  CS_OFFL_SIR_LRM_2_20190124T185827_20190124T193845_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T190845_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T0508_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T195408_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T195408_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T0508_20190124T200236_C001  CS_OFFL_S
CS_OFFL_SIR_LRM_2_20190124T178582_20190124T17923_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2) and a height for Retracker 3) and backscatter error for Retracker 2 and a height for Retracker 3). Backscatter Error (Retracker 3), Backscatter Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error
Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20190124T172939_20190124T174600_C001  CS_OFFL_SIR_LRM_2_20190124T180304_20190124T181644_C001  CS_OFFL_SIR_LRM_2_20190124T181858_20190124T183043_C001  CS_OFFL_SIR_LRM_2_20190124T181858_20190124T183043_C001  CS_OFFL_SIR_LRM_2_20190124T185827_20190124T190845_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T190845_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T192451_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T200236_C001  CS_OFFL_S
CS_OFFL_SIR_LRM_2_20190124T1810304_20190124T181644_C001  CS_OFFL_SIR_LRM_2_20190124T181688_20190124T183043_C001  CS_OFFL_SIR_LRM_2_20190124T181858_20190124T183043_C001  CS_OFFL_SIR_LRM_2_20190124T185827_20190124T190845_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T190845_C001  CS_OFFL_SIR_LRM_2_20190124T191025_20190124T192454_C001  CS_OFFL_SIR_LRM_2_20190124T194509_20190124T195411_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T20422_C001  CS_OFFL_SIR_LRM_2_20190124T204124_20190124T20422_C001
Error (Retracker 2)  CS_OFFL_SIR_LRM_2 _ 20190124T181858_20190124T183043_C001  Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 3), Back
Error (Retracker 2)  Error (Re
Error (Retracker 2)  Error (Retracker 2), Backscatter Error (Retracker 2)  Error (Retracker 2), Backscatter Error (Retracker 2)  Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2)  Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retrac
CS_OFFL_SIR_LRM_2_20190124T19509_20190124T195411_C001  Error (Retracker 2)  Error (Retracker
Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  CS_OFFL_SIR_LRM_2_20190124T204124_20190124T210422_C001  Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker
CS_OFFL_SIR_LRM_2_20190124T195749_20190124T200236_C001  (Retracker 3), Backscatter Error (Retracker
CS_OFFL_SIR_LRM_2_20190124T201508_20190124T201523_C001  (Retracker 3), Backscatter Error (Retracker 2) In one or more records  CS_OFFL_SIR_LRM_2_20190124T204124_20190124T210422_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) in one or more records  There is a height and backscatter error for Retracker 2 and a height for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_201901241204124_201901241210422_C001
CS_OFFL_SIR_LRM_2_20190124T211151_20190124T211444_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more rec
CS_OFFL_SIR_LRM_2_20190124T211744_20190124T214548_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20190124T220731_20190124T220814_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20190124T221809_20190124T224349_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20190124T225049_20190124T225416_C001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more rec
CS_OFFL_SIR_LRM_2_20190124T225751_20190124T230846_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20190124T231425_20190124T233059_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_SIN_2_20190124T011506_20190124T011628_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T012155_20190124T012508_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T021313_20190124T021418_C001  SARIn X-track Angle Error, Surface Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or S Model was used for one or more records
CS_OFFL_SIR_SIN_2_20190124T025437_20190124T025551_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T030052_20190124T030412_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T043527_20190124T043804_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T043957_20190124T044623_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T053044_20190124T053204_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T053451_20190124T053604_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T061259_20190124T061658_C001  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220190124T061908_20190124T061956_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T062411_20190124T062545_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T070959_20190124T071104_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T071146_20190124T071235_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T071425_20190124T071631_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T075257_20190124T075451_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T080312_20190124T080500_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T084912_20190124T085416_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_220190124T093229_20190124T093348_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T093548_20190124T093632_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T094135_20190124T094412_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T102219_20190124T102251_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_220190124T111152_20190124T111312_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T111354_20190124T111554_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T112156_20190124T112326_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T125141_20190124T125502_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T130027_20190124T130145_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T143038_20190124T143358_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T143919_20190124T144042_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T152013_20190124T152258_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T160707_20190124T160908_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T161750_20190124T161920_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T165647_20190124T165749_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T170056_20190124T170158_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T174611_20190124T174748_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T175333_20190124T175337_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T175511_20190124T175716_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T183537_20190124T183657_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T183857_20190124T184112_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_220190124T192524_20190124T192711_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T193231_20190124T193236_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T193247_20190124T193251_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T193353_20190124T194047_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T194213_20190124T194508_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_220190124T210429_20190124T210745_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_2_20190124T211129_20190124T211135_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T211145_20190124T211150_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T211444_20190124T211650_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T224352_20190124T224527_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190124T225416_20190124T225540_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190124T234245_20190124T234320_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

# 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	172	172	172	0	0
SIR_LRM_2	170	170	170	0	0
SIR_LRMI2_	170	170	170	0	0
SIR_SAR_1B	117	117	117	0	0
SIR_SAR_2	116	116	116	0	0
SIR_SARI2_	116	116	116	0	0
SIR_SIN_1B	97	97	97	0	0
SIR_SIN_2	97	97	97	0	0
SIR_SINI2	97	97	97	0	0
SIR GDR 2	15	15	15	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:

178