



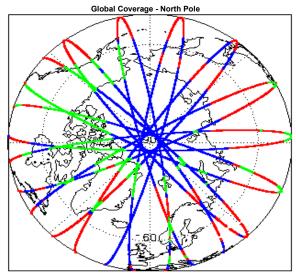
1. Overview

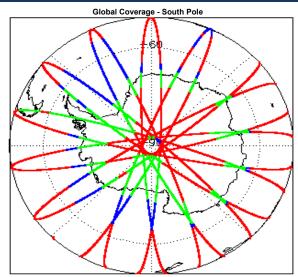
Report Production Date:	22-Feb-2019	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

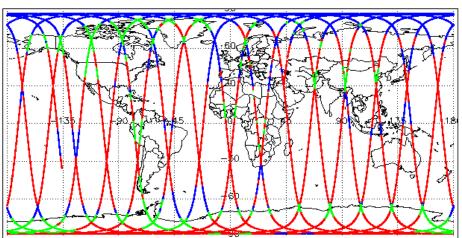
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2 and 5.2
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary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

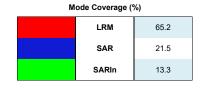
Mission / Instru	ument News
21-Jan-2019	None
22-Jan-2019	None
23-Jan-2019	Nothing planned

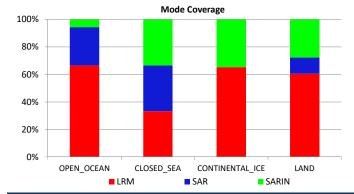
2. Global Coverage

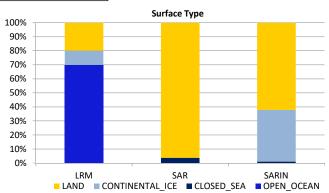












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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_20190122T022125_20190122T022126_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SIN_1B_20190122T005146_20190122T005148_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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20190122T055741_20190122T061211_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_SIN_220190122T005146_20190122T005148_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_220190122T022125_20190122T022126_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:

0

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

Product	Test Failed	Description
CS_OFFL_SIR_LRM_2_20190122T000743_20190122T002533_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_220190122T003815_20190122T003935_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_220190122T011404_20190122T011653_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_20190122T011854_20190122T012422_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220190122T013016_20190122T015433_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_20190122T015511_20190122T020400_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_20190122T022745_20190122T023127_C001	Height Error (Retracker 3)	There is a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20190122T023630_20190122T025608_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_20190122T025816_20190122T030319_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190122T030923_20190122T034230_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_20190122T040802_20190122T043055_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_20190122T044030_20190122T044223_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190122T044908_20190122T050444_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_20190122T050452_20190122T050646_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_20190122T051128_20190122T052000_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_20190122T053850_20190122T055534_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_20190122T055741_20190122T061211_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_20190122T062822_20190122T064350_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_20190122T064551_20190122T065514_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_20190122T072337_20190122T073441_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_20190122T073958_20190122T075427_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_20190122T075721_20190122T080538_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190122T080755_20190122T082422_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_20190122T082709_20190122T082920_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_220190122T085647_20190122T085700_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_20190122T090637_20190122T093344_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_220190122T093857_20190122T094406_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20190122T094654_20190122T101214_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_220190122T104409_20190122T105522_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

Early Ended 1	CS_OFFL_SIR_LRM_2 _20190122T110100_20190122T111135_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
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Page Temp Page	CS_OFFL_SIR_LRM_220190122T130455_20190122T131048_C001	, ,	
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Enror (Retracker 2) Height Error (Retracker 2) H	CS_OFFL_SIR_LRM_2_20190122T180537_20190122T181910_C001		
CS_OFFL_SIR_LRM_2_2019012ZT190846_2019012ZT190540_C001 CS_OFFL_SIR_LRM_2_2019012ZT190846_2019012ZT195718_C001 CS_OFFL_SIR_LRM_2_2019012ZT190846_2019012ZT195718_C001 CS_OFFL_SIR_LRM_2_2019012ZT194819_2019012ZT195705_C001 CS_OFFL_SIR_LRM_2_2019012ZT194819_2019012ZT195705_C001 CS_OFFL_SIR_LRM_2_2019012ZT194819_2019012ZT1950505_C001 CS_OFFL_SIR_LRM_2_2019012ZT194819_2019012ZT1950505_C001 CS_OFFL_SIR_LRM_2_2019012ZT194819_2019012ZT1950505_C001 CS_OFFL_SIR_LRM_2_2019012ZT200014_2019012ZT200503_C001 CS_OFFL_SIR_LRM_2_2019012ZT200014_2019012ZT200503_C001 CS_OFFL_SIR_LRM_2_2019012ZT200747_2019012ZT200503_C001 CS_OFFL_SIR_LRM_2_2019012ZT200747_2019012ZT200503_C001 CS_OFFL_SIR_LRM_2_2019012ZT200747_2019012ZT200503_C001 CS_OFFL_SIR_LRM_2_2019012ZT200747_2019012ZT210534_C001 CS_OFFL_SIR_LRM_2_2019012ZT200531_2019012ZT210647_C001 CS_OFFL_SIR_LRM_2_2019012ZT2200532_019012ZT2210647_C001 CS_OFFL_SIR_LRM_2_2019012ZT220053_2019012ZT221064_C001 CS_OFFL_SIR_LRM_2_2019012ZT220053_019012ZT224645_C001 CS_OFFL_SIR_LRM_2_2019012ZT220053_019012ZT224614_C001 CS_OFFL_SIR_LRM_2_2019012ZT220053_019012ZT224614_C001 CS_OFFL_SIR_LRM_2_2019012ZT220053_019012ZT224614_C001 CS_OFFL_SIR_LRM_2_2019012ZT220055_019012ZT223516_C001 CS_OFFL_SIR_LRM_2_2019012ZT220055_019012ZT223516_C001 CS_OFFL_SIR_LRM_2_2019012ZT2230515_019012ZT223516_C001 CS_OFFL_SIR_LRM_2_2019012ZT2230515_019012ZT223516_C001 CS_OFFL_SIR_LRM_2_2019012ZT2230515_019012ZT223516_C001 CS_OFFL_SIR_LRM_2_2019012ZT2230515_019012ZT223516_C001 CS_OFFL_SIR_LRM_2_2019012ZT02055702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT0205503_019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_2019012ZT02566_C001 CS_OFFL_SIR_SIN_2_2019012ZT025702_20190	CS_OFFL_SIR_LRM_2_20190122T182125_20190122T183316_C001		-
CS_OFFL_SIR_LRM_2_20190122T191251_20190122T192718_COOI CS_OFFL_SIR_LRM_2_20190122T194819_20190122T19565_COOI CS_OFFL_SIR_LRM_2_20190122T194819_20190122T200503_COOI CS_OFFL_SIR_LRM_2_20190122T200014_20190122T200503_COOI CS_OFFL_SIR_LRM_2_20190122T200014_20190122T200503_COOI CS_OFFL_SIR_LRM_2_20190122T200014_20190122T200503_COOI CS_OFFL_SIR_LRM_2_20190122T200014_20190122T200503_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T201334_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T201334_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T201344_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T21047_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T21047_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T21047_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T21047_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T21047_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T210447_COOI CS_OFFL_SIR_LRM_2_20190122T200747_20190122T21040_COOI CS_OFFL_SIR_LRM_2_20190122T220014_CO0190122T2244857_COOI CS_OFFL_SIR_LRM_2_20190122T220014_CO0190122T224644_COOI CS_OFFL_SIR_LRM_2_20190122T220014_CO0190122T224644_COOI CS_OFFL_SIR_LRM_2_20190122T2225642_COOI CS_OFFL_SIR_LRM_2_20190122T2225642_COOI CS_OFFL_SIR_LRM_2_20190122T2255642_COOI CS_OFFL_SIR_LRM_2_20190122T223005_20190122T23316_COOI CS_OFFL_SIR_LRM_2_20190122T23316_COOI CS_OFFL_SIR_LRM_2_20190122T23316_COOI CS_OFFL_SIR_SIN_2_20190122T01733_20190122T23316_COOI CS_OFFL_SIR_SIN_2_20190122T01733_20190122T02550_COOI CS_OFFL_SIR_SIN_2_20190122T021530_20190122T02550_COOI CS_OFFL_SIR_SIN_2_20190122T021530_20190122T02550_COOI CS_OFFL_SIR_SIN_2_20190122T021530_20190122T02550_COOI CS_OFFL_SIR_SIN_2_20190122T021530_20190122T02550_COOI CS_OFFL_SIR_SIN_2_20190122T0000122T00000000000000000000000	CS_OFFL_SIR_LRM_2_20190122T190051_20190122T190940_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20190122T191251_20190122T200503_C001 Right Enror (Retracker 2), Backscatter Error (Retracker 2), Backscatter Erro	CS_OFFL_SIR_LRM_220190122T190946_20190122T1911112_C001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190122T200014_20190122T200503_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2) as height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20190122T200347_20190122T210647_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2	CS_OFFL_SIR_LRM_220190122T191251_20190122T192718_C001	(Retracker 3), Backscatter Error	
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190122T200747_20190122T201334_C001 Error (Retracker 2). Backscatter Error (Retracker 2). B	CS_OFFL_SIR_LRM_2_20190122T194819_20190122T195605_C001		
Error (Retracker 2) Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220190122T200014_20190122T200503_C001		· ·
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190122T21011_20190122T214857_C001	CS_OFFL_SIR_LRM_220190122T200747_20190122T201334_C001	,	· ·
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190122T220953_20190122T221040_C001 Height Error (Retracker 2), Backscatter records Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter (Retracker 3), Backscatter (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter (Retracker 3), Backscatter (Retracker 3), Backscatter (Retracker 3), Backscatter (Retracker 2), Backscatter (Retr	CS_OFFL_SIR_LRM_220190122T204351_20190122T210647_C001		
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20190122T222044_20190122T224614_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) and a height error (Retracker 2) and a height error for Retracker 2 and a height error for Retracker 2) and	CS_OFFL_SIR_LRM_2_20190122T212011_20190122T214857_C001		
CS_OFFL_SIR_LRM_2_20190122T2224614_C001 (Retracker 3), Backscatter Error (Retracker 3 for one or more records Surface Model Unavailable 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 and a neight error (Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a neight error (Retracker 3 for one or more records 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 records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220190122T220953_20190122T221040_C001		
CS_OFFL_SIR_LRM_2_20190122T225316_20190122T225642_C001 Surface Model Unavailable 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 records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records 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, Surface Model Unavailable SARIn X-track Angle Error, Surface Model Unavailable 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 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	CS_OFFL_SIR_LRM_220190122T222044_20190122T224614_C001	(Retracker 3), Backscatter Error	
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20190122T231651_20190122T233316_C001 Error (Retracker 2), Backscatter Error (Retracker 2), B	CS_OFFL_SIR_LRM_220190122T225316_20190122T225642_C001	,	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_2_20190122T011733_20190122T011854_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, 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 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_LRM_220190122T230015_20190122T231112_C001		
CS_OFFL_SIR_SIN_2_20190122T012422_20190122T012736_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 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 for one or more records 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	CS_OFFL_SIR_LRM_220190122T231651_20190122T233316_C001		
CS_OFFL_SIR_SIN_2_20190122T021539_20190122T021650_C001 SARIN X-track Angle Error, Surface Model Unavailable SARIN X-track Angle Error, Surface Model Unavailable SARIN X-track Angle Error SARIN X-track Angle Error 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 CS_OFFL_SIR_SIN_2_20190122T030319_20190122T030637_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190122T011733_20190122T011854_C001	SARIn X-track Angle Error	
Model Unavailable An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190122T030319_20190122T030637_C001 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 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_220190122T012422_20190122T012736_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20190122T030319_20190122T030637_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20190122T030319_20190122T030637_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records	CS_OFFL_SIR_SIN_220190122T021539_20190122T021650_C001		
CS_OFFL_SIR_SIN_2_201901221030319_201901221030637_C001 SARIN X-track Angle Error records CS_OFFL_SIR_SIN_2_20190122104030_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more	CS_OFFL_SIR_SIN_220190122T025702_20190122T025816_C001	SARIn X-track Angle Error	
	CS_OFFL_SIR_SIN_220190122T030319_20190122T030637_C001	SARIn X-track Angle Error	
	CS_OFFL_SIR_SIN_220190122T043753_20190122T044030_C001	SARIn X-track Angle Error	

CS_OFFL_SIR_SIN_2_20190122T044223_20190122T044849_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T053311_20190122T053432_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T053712_20190122T053827_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T062134_20190122T062225_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T062637_20190122T062812_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T071224_20190122T071330_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T071417_20190122T071509_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T075524_20190122T075721_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T080538_20190122T080726_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T085137_20190122T085647_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_2_20190122T093456_20190122T093614_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T093816_20190122T093856_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T094406_20190122T094648_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T102450_20190122T102521_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_2_20190122T111417_20190122T111537_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T111625_20190122T111821_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T112424_20190122T112553_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T125406_20190122T125729_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T130255_20190122T130412_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T143306_20190122T143626_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T144146_20190122T144309_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T152245_20190122T152524_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T160944_20190122T161142_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T162024_20190122T162151_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T165915_20190122T170019_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T170322_20190122T170425_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T174837_20190122T175013_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T175600_20190122T175604_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T175740_20190122T175942_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T184124_20190122T184339_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_2_20190122T192751_20190122T192937_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T193458_20190122T193503_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T193514_20190122T193517_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T193619_20190122T194313_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190122T210656_20190122T211009_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220190122T211356_20190122T211402_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T211411_20190122T211417_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T211704_20190122T211915_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T224621_20190122T224751_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20190122T225643_20190122T225806_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220190122T234512_20190122T234547_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	176	176	176	0	0
SIR_LRM_2	171	171	171	0	0
SIR_LRMI2_	171	171	171	0	0
SIR_SAR_1B	112	112	112	0	0
SIR_SAR_2	112	112	112	0	0
SIR_SARI2_	112	112	112	0	0
SIR_SIN_1B	98	98	98	0	0
SIR_SIN_2	98	98	98	0	0
SIR_SINI2	98	98	98	0	0
SIR CDR 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:

183