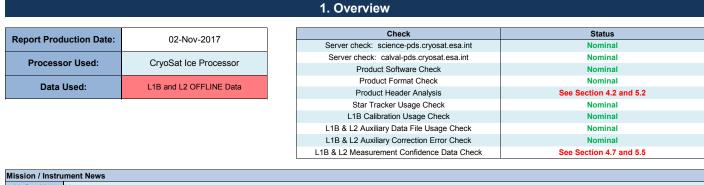


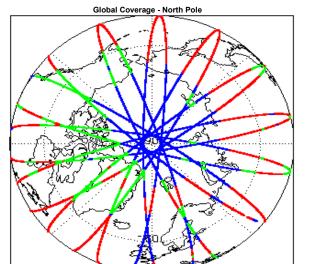
IDEAS+ Daily Report for OFFLINE data:

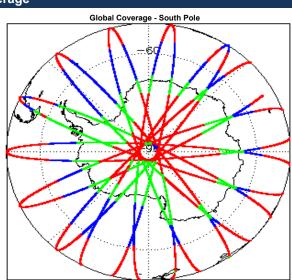
<u>04/10/2017</u>



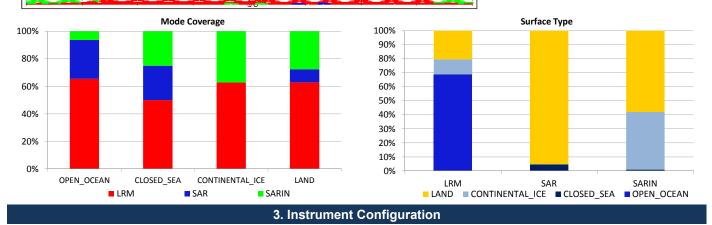
I	Mission / Instrument News		
	03-Oct-2017	None	
	04-Oct-2017	None	
	05-Oct-2017	SIRAL unavailability on 5-Oct-2017 from 11:01:29 to 12:52:11 due to a planned orbit manoeuvre.	







Mode Coverage (%)			
	LRM	21.2	
	SAR	14.3	
	SARIn	0.0	



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: 1				
Product	Test Failed			
CS_OFFL_SIR_SAR_1B_20171004T073325_20171004T073328_C001	Percentage of processing errors detected greater than minimum acceptable threshold.			
4.3 Star Tracker Usage Check				
Each product is checked in order to ensure a valid star tracker file has been used in processing.				

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing Number of products with errors:

4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 1

Product	Test Failed
CS_OFFL_SIR_SAR_220171004T073325_20171004T073327_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. 0

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected

Product CS_OFFL_SIR_LRM_2_20171004T002637_20171004T005829_C001	Test Failed Height Error (Retracker 2), Backscatter	Description There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T011047_20171004T011236_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T013000_20171004T014704_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T020453_20171004T0122558_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T030220_20171004T030703_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T030749_20171004T032637_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220171004T033431_20171004T033649_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_220171004T034420_20171004T041918_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220171004T043210_20171004T045133_C001	(Retracker 2), Height Error (Retracker 2) Height 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_220171004T045202_20171004T050503_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_220171004T051400_20171004T051557_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171004T052332_20171004T053819_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_220171004T054021_20171004T054942_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_220171004T061207_20171004T062902_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_220171004T065225_20171004T065520_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171004T070312_20171004T071648_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_220171004T075131_20171004T075354_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_220171004T075517_20171004T080107_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220171004T080352_20171004T082646_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_220171004T083031_20171004T083900_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171004T084239_20171004T090702_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_220171004T093823_20171004T094941_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_220171004T095515_20171004T100554_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_220171004T111315_20171004T112856_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_220171004T113426_20171004T114333_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_220171004T123639_20171004T123818_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_220171004T125048_20171004T132336_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_220171004T142737_20171004T145808_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_220171004T145818_20171004T150253_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2) Surface Model Unavailable	records 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_20171004T160614_20171004T162210_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	records There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error
	(Retracker 2) Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20171004T162514_20171004T162746_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T162749_20171004T164207_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T170107_20171004T171137_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T171507_20171004T173212_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T175420_20171004T180432_C001	Error (Retracker 2) Height Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220171004T180635_20171004T182054_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220171004T185457_20171004T190753_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height 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_220171004T190917_20171004T191137_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_220171004T194520_20171004T195936_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_220171004T200846_20171004T201006_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171004T201558_20171004T204132_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_220171004T211437_20171004T213844_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__20171004T214745_20171004T215109_C001 CS_OFFL_SIR_LRM_2_20171004T215447_20171004T220539_C001 CS_OFFL_SIR_LRM_2__20171004T221111_20171004T222104_C001 CS_OFFL_SIR_LRM_2__20171004T222300_20171004T222322_C001 CS_OFFL_SIR_LRM_2__20171004T225217_20171004T231811_C001 CS OFFL SIR LRM 2 20171004T232643 20171004T233013 C001 CS_OFFL_SIR_LRM_2__20171004T233532_20171005T000803_C001 CS_OFFL_SIR_SIN_2__20171004T001143_20171004T001308_C001 CS OFFL SIR SIN 2 20171004T001854 20171004T001914 C001 CS_OFFL_SIR_SIN_2__20171004T002056_20171004T002209_C001 CS_OFFL_SIR_SIN_2__20171004T015110_20171004T015236_C001 CS_OFFL_SIR_SIN_2__20171004T015747_20171004T020050_C001 CS_OFFL_SIR_SIN_2__20171004T033131_20171004T033430_C001 CS OFFL SIR SIN 2 20171004T033649 20171004T034207 C001 CS OFFL SIR SIN 2 20171004T042744 20171004T043156 C001 CS OFFL SIR SIN 2 20171004T051126 20171004T051400 C001 CS_OFFL_SIR_SIN_2__20171004T051557_20171004T051732_C001 CS_OFFL_SIR_SIN_2_20171004T052100_20171004T052231_C001 CS_OFFL_SIR_SIN_2__20171004T060636_20171004T060750_C001 CS OFFL SIR SIN 2 20171004T060935 20171004T061207 C001 CS_OFFL_SIR_SIN_2__20171004T064626_20171004T065224_C001 CS_OFFL_SIR_SIN_2__20171004T070001_20171004T070144_C001 CS OFFL SIR SIN 2 20171004T074559 20171004T074820 C001 CS_OFFL_SIR_SIN_2__20171004T082841_20171004T083031_C001 CS_OFFL_SIR_SIN_2__20171004T083900_20171004T084056_C001 CS OFFL SIR SIN 2 20171004T091940 20171004T091959 C001 CS_OFFL_SIR_SIN_2__20171004T100820_20171004T100957_C001 CS_OFFL_SIR_SIN_2__20171004T101121_20171004T101243_C001 CS OFFL SIR SIN 2 20171004T101700 20171004T101950 C001 CS OFFL SIR SIN 2 20171004T114808 20171004T115155 C001 CS_OFFL_SIR_SIN_2__20171004T115740_20171004T115854_C001 CS OFFL SIR SIN 2 20171004T123819 20171004T123916 C001 CS_OFFL_SIR_SIN_2__20171004T132743_20171004T133059_C001 CS_OFFL_SIR_SIN_2_20171004T133611_20171004T133733_C001 CS_OFFL_SIR_SIN_2__20171004T141835_20171004T141921_C001 CS_OFFL_SIR_SIN_2__20171004T150459_20171004T150902_C001 CS OFFL SIR SIN 2 20171004T151520 20171004T151627 C001 CS_OFFL_SIR_SIN_2__20171004T155416_20171004T155630_C001 CS_OFFL_SIR_SIN_2__20171004T155731_20171004T155849_C001 CS OFFL SIR SIN 2 20171004T164306 20171004T164436 C001 CS_OFFL_SIR_SIN_2__20171004T165227_20171004T165411_C001 CS_OFFL_SIR_SIN_2__20171004T173212_20171004T173612_C001 CS_OFFL_SIR_SIN_2__20171004T173634_20171004T173801_C001 CS OFFL SIR SIN 2 20171004T182218 20171004T182402 C001 CS OFFL SIR SIN 2 20171004T182926 20171004T182932 C001 CS OFFL SIR SIN 2 20171004T183050 20171004T183329 C001 CS OFFL SIR SIN 2 20171004T183333 20171004T183704 C001 CS OFFL SIR SIN 2 20171004T191234 20171004T191652 C001 CS_OFFL_SIR_SIN_2__20171004T200137_20171004T200340_C001 CS_OFFL_SIR_SIN_2__20171004T200840_20171004T200846_C001

Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model I Inavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error, Surface Model Unavailab SARIn X-track Angle Error SARIn X-track Angle Error

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 and a height error for Retracker 3 for one or more record 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 An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220171004T201007_20171004T201328_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171004T214106_20171004T214328_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171004T214724_20171004T214728_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171004T215110_20171004T215223_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171004T224103_20171004T224123_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_220171004T232029_20171004T232153_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171004T232638_20171004T232642_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171004T233013_20171004T233133_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	141	141	141	0	0
SIR_LRM_2	140	140	140	0	0
SIR_LRMI2_	140	140	140	0	0
SIR_SAR_1B	91	91	91	0	0
SIR_SAR_2	91	91	91	0	0
SIR_SARI2_	91	91	91	0	0
SIR_SIN_1B	106	106	106	0	0
SIR SIN 2	106	106	106	0	0
SIR_SINI2	106	106	106	0	0
SIR_GDR_2	15	15	15	0	0
	1	1			

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:	181	