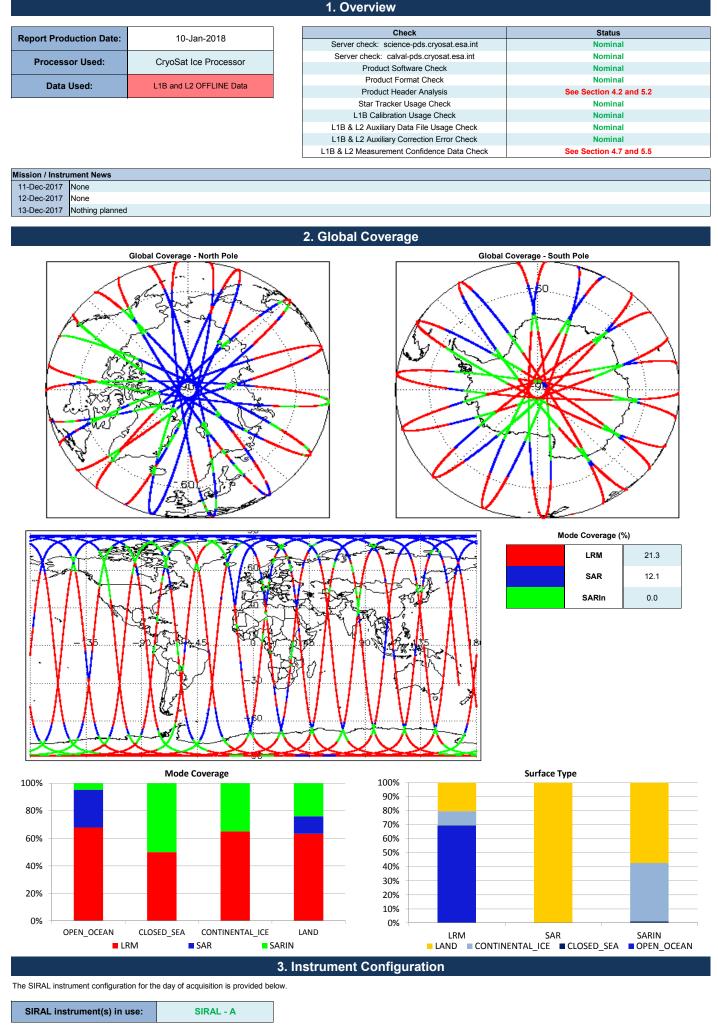


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4. Level 1B Data Quality Check

4.1 L1B Product Format Check	
Each product, retrieved and unpacked from the science server, is checked to ens	sure it consists of both an XML header file (.HDR) and a product file (.DBL).
Number of products with errors: 0	
4.2 L1B Product Header Analysis	
For all products, a series of pre-defined checks are carried out on the MPH and S	SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 2	
Product	Test Failed
CS_OFFL_SIR_SAR_1B_20171212T135706_20171212T135708_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20171212T034114_20171212T034116_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	J in processing.
Number of products with errors: 0	
4.4 L1B Calibration Usage Check	
Each product is checked in order to ensure that the necessary calibration files ha	ive been used in processing.
Number of products with errors: 0	
4.5 L1B Auxilary Data File Usage Check	
Each product is checked for missing Data Set Descriptors with respect to a pre-d	letermined 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 measuremen	it record. The bit value of this flag indicates any problems when set.
Number of products with errors: 0	
4.7 L1B Measurement Confidence Data Check	
CryoSat L1B data includes a measurement confidence flag (field 18) for each me	asurement record. The bit value of this flag indicates any problems when set.
Currently, there are several common error flags raised in the Level 1B prod below, followed by a table of any additional issues arising from this test.	lucts which are expected due to operational mode or surface type. All common flags are summarised in the list
Block Degraded Flag: This flag is currently set for a number of individual record	s 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, i	ndicating that the ADC correction application is deactivated, but this is in line with the current configuration.
Number of products with errors: 0	
5. L	_evel 2 Data Quality Check
5.1 L2 Product Format Check	
Each product, retrieved and unpacked from the science server, is checked to en	sure it consists of both an XML header file (.HDR) and a product file (.DBL).
Number of products with errors: 0	
5.2 L2 Product Header Analysis	
For all products, a series of pre-defined checks are carried out on the MPH and S	SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 2	

Product	Test Failed
CS_OFFL_SIR_SAR_220171212T034114_20171212T034116_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_220171212T135706_20171212T135708_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:
0

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.

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Product	Test Failed	Description
CS_OFFL_SIR_LRM_220171211T235040_20171212T002208_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_220171212T003858_20171212T003924_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_220171212T004721_20171212T011126_C001	Height Error (Retracker 2), Backscatter	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_220171212T014623_20171212T014720_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 2 20171212T014835 20171212T015847 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
	(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_220171212T022019_20171212T023559_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220171212T024219_20171212T025400_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220171212T025944_20171212T030211_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171212T030921_20171212T032347_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_220171212T032527_20171212T032622_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_220171212T032625_20171212T033947_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_220171212T040216_20171212T040525_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_20171212T040538_20171212T040926_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_220171212T041049_20171212T041607_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_20171212T041749_20171212T043430_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_220171212T043728_20171212T044615_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171212T044838_20171212T051052_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_220171212T052340_20171212T052437_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_220171212T053926_20171212T061309_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_220171212T062753_20171212T065241_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_220171212T072126_20171212T073554_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_220171212T080721_20171212T082719_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_220171212T082744_20171212T083206_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_220171212T083211_20171212T083249_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_220171212T085715_20171212T093111_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_220171212T095425_20171212T100153_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_220171212T102038_20171212T102316_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_220171212T103646_20171212T104603_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_220171212T104849_20171212T111024_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_220171212T112706_20171212T113724_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_220171212T113912_20171212T114630_C001	Height Error (Retracker 2) 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_220171212T114716_20171212T115146_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_220171212T121632_20171212T124940_C001	(Retracker 2) 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_220171212T125719_20171212T125957_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220171212T130802_20171212T132032_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_220171212T132045_20171212T133815_C001	Height Error (Retracker 2) 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_220171212T135930_20171212T141121_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_220171212T141325_20171212T142838_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_220171212T144511_20171212T145539_C001	Height Error (Retracker 2) 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_20171212T150158_20171212T151403_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter 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_20171212T155322_20171212T160743_C001	(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_220171212T162201_20171212T165541_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 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_220171212T172321_20171212T174653_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records

CS_OFFL_SIR_LRM_2__20171212T175446_20171212T175814_C001 CS_OFFL_SIR_LRM_2_20171212T180111_20171212T182900_C001 CS OFFL SIR LRM 2 20171212T190126 20171212T192601 C001 CS_OFFL_SIR_LRM_2_20171212T193345_20171212T193713_C001 CS_OFFL_SIR_LRM_2__20171212T194147_20171212T195149_C001 CS OFFL SIR LRM 2 20171212T195726 20171212T201505 C001 CS OFFL SIR LRM 2 20171212T203924 20171212T204729 C001 CS_OFFL_SIR_LRM_2__20171212T210836_20171212T211409_C001 CS OFFL SIR LRM 2 20171212T212052 20171212T215357 C001 CS_OFFL_SIR_LRM_2__20171212T220714_20171212T220820_C001 CS_OFFL_SIR_LRM_2__20171212T222638_20171212T224306_C001 CS OFFL SIR LRM 2 20171212T224756 20171212T225305 C001 CS OFFL SIR LRM 2 20171212T225925 20171212T233317 C001 CS_OFFL_SIR_SIN_2_20171212T011827_20171212T012101_C001 CS_OFFL_SIR_SIN_2__20171212T012255_20171212T012531_C001 CS OFFL SIR SIN 2 20171212T012739 20171212T012920 C001 CS_OFFL_SIR_SIN_2__20171212T021335_20171212T021455_C001 CS_OFFL_SIR_SIN_2_20171212T021903_20171212T022019_C001 CS OFFL SIR SIN 2 20171212T025400 20171212T025944 C001 CS OFFL SIR SIN 2 20171212T030211 20171212T030238 C001 CS OFFL SIR SIN 2 20171212T030703 20171212T030842 C001 CS OFFL SIR SIN 2 20171212T034808 20171212T034857 C001 CS_OFFL_SIR_SIN_2__20171212T035306_20171212T035516_C001 CS_OFFL_SIR_SIN_2__20171212T043550_20171212T043728_C001 CS_OFFL_SIR_SIN_2__20171212T044615_20171212T044824_C001 CS_OFFL_SIR_SIN_2__20171212T053219_20171212T053704_C001 CS_OFFL_SIR_SIN_2_20171212T061525_20171212T061651_C001 CS_OFFL_SIR_SIN_2__20171212T061835_20171212T061938_C001 CS_OFFL_SIR_SIN_2__20171212T062407_20171212T062630_C001 CS OFFL SIR SIN 2 20171212T075501 20171212T075854 C001 CS_OFFL_SIR_SIN_2__20171212T080445_20171212T080611_C001 CS_OFFL_SIR_SIN_2_20171212T084531_20171212T084626_C001 CS OFFL SIR SIN 2 20171212T093447 20171212T093800 C001 CS OFFL SIR SIN 2 20171212T094316 20171212T094426 C001 CS_OFFL_SIR_SIN_2__20171212T111219_20171212T111637_C001 CS OFFL SIR SIN 2 20171212T112217 20171212T112340 C001 CS_OFFL_SIR_SIN_2__20171212T120148_20171212T120554_C001 CS_OFFL_SIR_SIN_2_20171212T125010_20171212T125135_C001 CS OFFL SIR SIN 2 20171212T125957 20171212T130143 C001 CS_OFFL_SIR_SIN_2__20171212T133815_20171212T133931_C001 CS_OFFL_SIR_SIN_2__20171212T134356_20171212T134449_C001 CS_OFFL_SIR_SIN_2__20171212T142914_20171212T143056_C001 CS_OFFL_SIR_SIN_2__20171212T143628_20171212T143635_C001 CS OFFL SIR SIN 2 20171212T143758 20171212T144020 C001 CS_OFFL_SIR_SIN_2__20171212T151809_20171212T152104_C001 CS_OFFL_SIR_SIN_2_20171212T152151_20171212T152403_C001 CS OFFL SIR SIN 2 20171212T160806 20171212T161013 C001 CS_OFFL_SIR_SIN_2__20171212T161542_20171212T161549_C001 CS_OFFL_SIR_SIN_2__20171212T161657_20171212T162129_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 Height Error (Retracker 2), Backscatter Error (Retracker 2) ecords Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Retracker 2) No DEM or Slope Model was used for the location of one or more records Surface Model Unavailable Height Error (Retracker 2) Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) ecords Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more 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ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailabl Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records

CS_OFFL_SIR_SIN_220171212T170742_20171212T170814_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_220171212T174821_20171212T175054_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T175424_20171212T175431_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T175440_20171212T175446_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T175814_20171212T175958_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T192707_20171212T192837_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T193338_20171212T193345_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T193713_20171212T193849_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T202555_20171212T202620_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_220171212T210719_20171212T210835_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T211410_20171212T211728_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T220521_20171212T220547_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_220171212T224637_20171212T224755_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220171212T225305_20171212T225616_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	168	168	168	0	0
SIR_LRM_2	166	166	166	0	0
SIR_LRMI2_	166	166	166	0	0
SIR_SAR_1B	125	125	125	0	0
SIR_SAR_2	125	125	125	0	0
SIR_SARI2_	125	125	125	0	0
SIR_SIN_1B	105	105	105	0	0
SIR_SIN_2	105	105	105	0	0
SIR_SINI2	105	105	105	0	0
SIR_GDR_2	14	14	14	0	0

 Errors
roducts with QCC errors:
Warnings
CC reports with warnings
ng QCC Reports

Number of products with missing QCC reports: 204