

IDEAS+ Daily Report for OFFLINE data:

<u>18/04/2018</u>

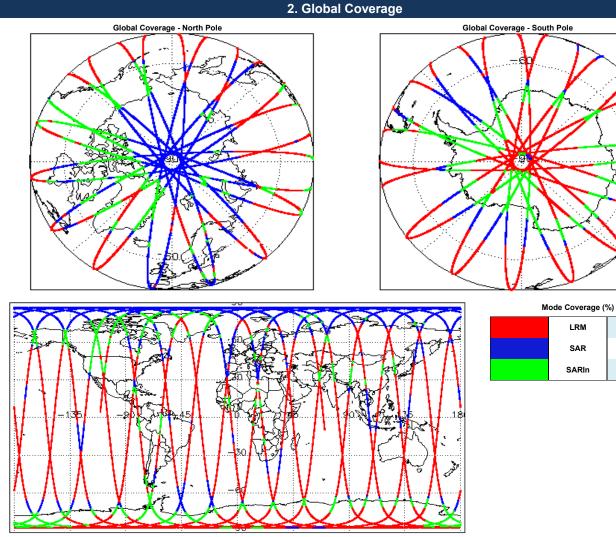
20.3

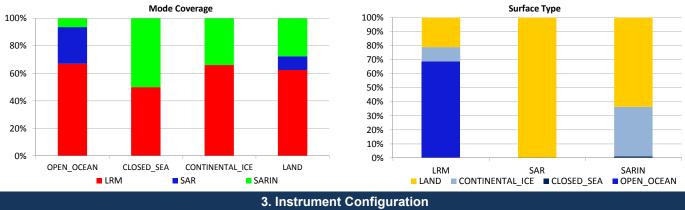
14.0

0.0

port Production Date:	17-May-2018	Check	Status	
Report Production Date.		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		Product Header Analysis	Nominal	
		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	

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17-Apr-2018	None	
18-Apr-2018	None	
19-Apr-2018	Nothing planned	





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

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: 0

Number of products with errors.

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: 0

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: 2

Product Test Failed Description CS_OFFL_SIR_LRM_1B_20180418T033348_20180418T033359_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 CS_OFFL_SIR_LRM_1B_20180418T234441_20180418T234841_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: 0

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.

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

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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.

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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:

Product	Test Failed	Description
CS OFFE SIR FRM 2 201804171234426 201804181000908 C001		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_2__20180418T004256_20180418T005251_C001 CS_OFFL_SIR_LRM_2__20180418T005830_20180418T010946_C001 CS OFFL SIR LRM 2 20180418T012322 20180418T015217 C001 CS OFFL SIR LRM 2 20180418T015945 20180418T020128 C001 CS OFFL SIR LRM 2 20180418T021444 20180418T024846 C001 CS OFFL SIR LRM 2 20180418T033239 20180418T033307 C001 CS_OFFL_SIR_LRM_2__20180418T033822_20180418T034201_C001 CS OFFL SIR LRM 2 20180418T035421 20180418T040300 C001 CS OFFL SIR LRM 2 20180418T040545 20180418T042808 C001 CS_OFFL_SIR_LRM_2__20180418T044115_20180418T045421_C001 CS_OFFL_SIR_LRM_2__20180418T045608_20180418T050204_C001 CS_OFFL_SIR_LRM_2__20180418T053259_20180418T060625_C001 CS_OFFL_SIR_LRM_2__20180418T062501_20180418T065607_C001 CS_OFFL_SIR_LRM_2__20180418T071607_20180418T072340_C001 CS OFFL SIR LRM 2 20180418T072821 20180418T072922 C001 CS_OFFL_SIR_LRM_2__20180418T072926_20180418T074558_C001 CS OFFL SIR LRM 2 20180418T080254 20180418T081640 C001 CS_OFFL_SIR_LRM_2__20180418T081854_20180418T083044_C001 CS OFFL SIR LRM 2 20180418T085822 20180418T090841 C001 CS_OFFL_SIR_LRM_2__20180418T091020_20180418T092450_C001 CS_OFFL_SIR_LRM_2__20180418T094435_20180418T095437_C001 CS OFFL SIR LRM 2 20180418T095717 20180418T100231 C001 CS_OFFL_SIR_LRM_2__20180418T100514_20180418T101209_C001 CS OFFL SIR LRM 2 20180418T101509 20180418T101520 C001 CS OFFL SIR LRM 2 20180418T104118 20180418T110417 C001 CS OFFL SIR LRM 2 20180418T111742 20180418T114431 C001 CS_OFFL_SIR_LRM_2__20180418T120729_20180418T120807_C001 CS OFFL SIR LRM 2 20180418T121845 20180418T124348 C001 CS_OFFL_SIR_LRM_2__20180418T125047_20180418T125414_C001 CS_OFFL_SIR_LRM_2__20180418T125731_20180418T130842_C001 CS_OFFL_SIR_LRM_2_20180418T131420_20180418T133101_C001 CS OFFL SIR LRM 2 20180418T135351 20180418T140114 C001 CS OFFL SIR LRM 2 20180418T140117 20180418T141215 C001 CS_OFFL_SIR_LRM_2__20180418T142526_20180418T143114_C001 CS_OFFL_SIR_LRM_2__20180418T143639_20180418T151026_C001 CS_OFFL_SIR_LRM_2__20180418T154614_20180418T160254_C001 CS OFFL SIR LRM 2 20180418T161605 20180418T163819 C001 CS_OFFL_SIR_LRM_2__20180418T164103_20180418T165030_C001 CS_OFFL_SIR_LRM_2__20180418T170204_20180418T170330_C001 CS_OFFL_SIR_LRM_2__20180418T172056_20180418T174113_C001 CS_OFFL_SIR_LRM_2__20180418T174646_20180418T174908_C001 CS OFFL SIR LRM 2 20180418T175605 20180418T182707 C001 CS_OFFL_SIR_LRM_2__20180418T184454_20180418T190358_C001 CS_OFFL_SIR_LRM_2__20180418T190419_20180418T191712_C001 CS OFFL SIR LRM 2 20180418T192619 20180418T192816 C001 CS_OFFL_SIR_LRM_2__20180418T193504_20180418T195040_C001

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) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), 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) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable 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) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable neight Effor (Retracker 2), neight Effor (Retracker 3), Backscatter Error Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2)

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 ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 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 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 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 ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 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 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 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 and a height error for Retracker 3 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 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 height error for Retracker 3 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 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

CS_OFFL_SIR_LRM_2__20180418T195242_20180418T200214_C001 CS OFFL SIR LRM 2 20180418T202853 20180418T204120 C001 CS OFFL SIR LRM 2 20180418T210446 20180418T210738 C001 CS OFFL SIR LRM 2 20180418T211429 20180418T212907 C001 CS_OFFL_SIR_LRM_2_20180418T221609_20180418T224017_C001 CS OFFL SIR LRM 2 20180418T224249 20180418T225121 C001 CS_OFFL_SIR_LRM_2__20180418T225355_20180418T231913_C001 CS OFFL SIR LRM 2 20180418T232858 20180418T232936 C001 CS_OFFL_SIR_LRM_2__20180418T235324_20180419T000318_C001 CS_OFFL_SIR_SIN_2__20180418T002206_20180418T002241_C001 CS_OFFL_SIR_SIN_2__20180418T011151_20180418T011311_C001 CS OFFL SIR SIN 2 20180418T011348 20180418T011552 C001 CS OFFL SIR SIN 2 20180418T012152 20180418T012322 C001 CS_OFFL_SIR_SIN_2__20180418T025140_20180418T025500_C001 CS OFFL SIR SIN 2 20180418T030023 20180418T030142 C001 CS_OFFL_SIR_SIN_2__20180418T043034_20180418T043354_C001 CS OFFL SIR SIN 2 20180418T043916 20180418T044040 C001 CS OFFL SIR SIN 2 20180418T052000 20180418T052250 C001 CS OFFL SIR SIN 2 20180418T060704 20180418T060902 C001 CS OFFL SIR SIN 2 20180418T061740 20180418T061913 C001 CS_OFFL_SIR_SIN_2__20180418T065637_20180418T065737_C001 CS_OFFL_SIR_SIN_2__20180418T070049_20180418T070150_C001 CS OFFL SIR SIN 2 20180418T074609 20180418T074747 C001 CS_OFFL_SIR_SIN_2__20180418T075330_20180418T075335_C001 CS_OFFL_SIR_SIN_2__20180418T075507_20180418T075714_C001 CS_OFFL_SIR_SIN_2_20180418T083515_20180418T083700_C001 CS OFFL SIR SIN 2 20180418T083849 20180418T084104 C001 CS_OFFL_SIR_SIN_2__20180418T092522_20180418T092709_C001 CS OFFL SIR SIN 2 20180418T093351 20180418T094045 C001 CS_OFFL_SIR_SIN_2__20180418T094218_20180418T094435_C001 CS OFFL SIR SIN 2 20180418T110428 20180418T110744 C001 CS_OFFL_SIR_SIN_2__20180418T111126_20180418T111133_C001 CS_OFFL_SIR_SIN_2__20180418T111142_20180418T111148_C001 CS_OFFL_SIR_SIN_2__20180418T111446_20180418T111650_C001 CS_OFFL_SIR_SIN_2__20180418T124348_20180418T124526_C001 CS_OFFL_SIR_SIN_2__20180418T125414_20180418T125539_C001 CS_OFFL_SIR_SIN_2_20180418T134237_20180418T134312_C001 CS_OFFL_SIR_SIN_2__20180418T142400_20180418T142525_C001 CS_OFFL_SIR_SIN_2__20180418T143114_20180418T143127_C001 CS OFFL SIR SIN 2 20180418T143316 20180418T143429 C001 CS_OFFL_SIR_SIN_2__20180418T160328_20180418T160454_C001 CS_OFFL_SIR_SIN_2__20180418T161006_20180418T161309_C001 CS OFFL SIR SIN 2 20180418T174345 20180418T174646 C001 CS OFFL SIR SIN 2 20180418T174908 20180418T175424 C001 CS_OFFL_SIR_SIN_2__20180418T184004_20180418T184410_C001 CS OFFL SIR SIN 2 20180418T192344 20180418T192619 C001 CS_OFFL_SIR_SIN_2__20180418T192816_20180418T192957_C001 CS OFFL SIR SIN 2 20180418T193319 20180418T193449 C001 CS OFFL SIR SIN 2 20180418T201854 20180418T202009 C001 CS_OFFL_SIR_SIN_2__20180418T202159_20180418T202434_C001

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

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 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 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 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 and a height error for Retracker 3 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 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 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

	1	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220180418T205844_20180418T210445_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_220180418T210738_20180418T210748_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180418T211220_20180418T211403_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180418T215818_20180418T220038_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180418T224101_20180418T224249_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180418T225121_20180418T225312_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180418T233201_20180418T233219_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_220180418T233752_20180418T234232_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	157	157	157	0	0
SIR_LRM_2	154	154	154	0	0
SIR_LRMI2_	154	154	154	0	0
SIR_SAR_1B	111	111	111	0	0
SIR_SAR_2	111	111	111	0	0
SIR_SARI2_	111	111	111	0	0
SIR_SIN_1B	108	108	108	0	0
SIR_SIN_2	108	108	108	0	0
SIR_SINI2	108	108	108	0	0
SIR_GDR_2	15	15	15	0	0

0.1 QCC EITOIS		
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:	176	