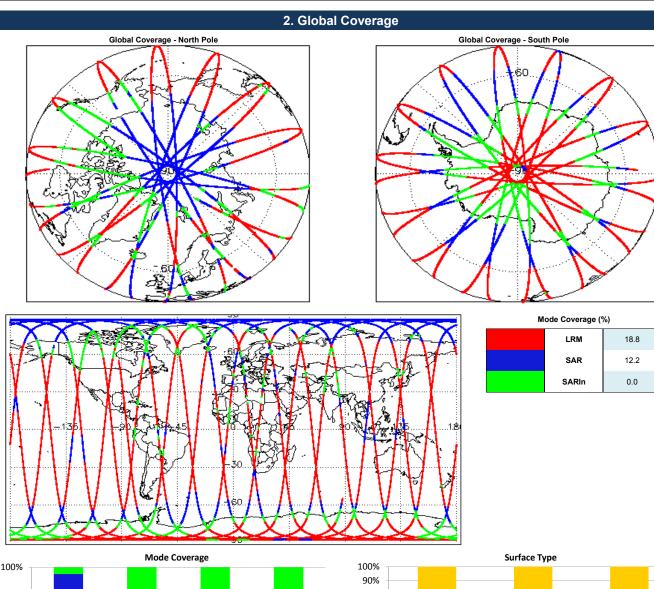
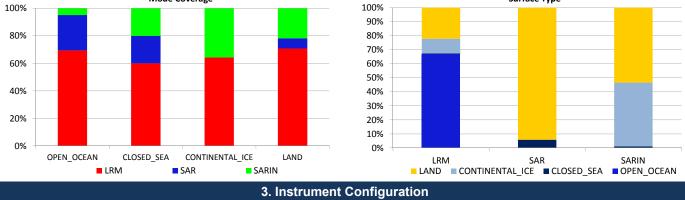


IDEAS+ Daily Report for OFFLINE data:

<u>22/07/2017</u>

1. Overview				
		Check Status		
Report Production Date:	23-Aug-2017	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:		Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Osed:		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	
Mission / Instrument News				
21-Jul-2017 None				
22-Jul-2017 None				
23-Jul-2017 Nothing planned				





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:

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: 1

Test Failed

Product

CS_OFFL_SIR_LRM_1B_20170722T010705_20170722T011139_C001

Echo error, TRK echo error

Description 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: 0

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.

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.

116

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_OFFL_SIR_LRM_2 201707221001618 201707221004957 C001		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220170722T011542_20170722T013947_C001
CS OFFL SIR LRM 2 20170722T014821 20170722T015146 C001
CS_OFFL_SIR_LRM_220170722T021150_20170722T022709_C001
CS_OFFL_SIR_LRM_220170722T024327_20170722T024953_C001
CS_OFFL_SIR_LRM_220170722T025239_20170722T031921_C001
CS_OFFL_SIR_LRM_220170722T032244_20170722T033052_C001
CS_OFFL_SIR_LRM_220170722T033542_20170722T040824_C001
CS_OFFL_SIR_LRM_220170722T042105_20170722T042235_C001
CS_OFFL_SIR_LRM_220170722T042247_20170722T042339_C001
CS_0FFL_SIR_LRM_2_20170722T045201_20170722T045743_C001
CS_OFFL_SIR_LRM_220170722T050222_20170722T050741_C001
CS_OFFL_SIR_LRM_220170722T051441_20170722T053551_C001
CS DEEL SID LDM 2 204707227052927 204707227055047 0001
CS_OFFL_SIR_LRM_220170722T053837_20170722T055017_C001
CS_OFFL_SIR_LRM_220170722T055939_20170722T060413_C001
CS_OFFL_SIR_LRM_220170722T062002_20170722T062446_C001
CS_OFFL_SIR_LRM_220170722T062634_20170722T063650_C001
CS_OFFL_SIR_LRM_220170722T064325_20170722T064640_C001
CS_OFFL_SIR_LRM_220170722T065355_20170722T065832_C001
CS_OFFL_SIR_LRM_220170722T065842_20170722T073019_C001
CS_OFFL_SIR_LRM_220170722T074302_20170722T075003_C001
CS_OFFL_SIR_LRM_220170722T075023_20170722T081419_C001
CS_OFFL_SIR_LRM_220170722T083316_20170722T084855_C001
CS_OFFL_SIR_LRM_220170722T084857_20170722T085009_C001
CS_OFFL_SIR_LRM_220170722T085239_20170722T090140_C001
CS_OFFL_SIR_LRM_220170722T092314_20170722T093854_C001
CS_OFFL_SIR_LRM_220170722T094513_20170722T095553_C001
CS_OFFL_SIR_LRM_220170722T100237_20170722T100502_C001
CS_OFFL_SIR_LRM_220170722T101238_20170722T102637_C001
CS_OFFL_SIR_LRM_220170722T102816_20170722T104338_C001
CS_OFFL_SIR_LRM_220170722T110511_20170722T111220_C001
CS_0FFL_SIR_LRM_2_20170722T111343_20170722T111835_C001
CS_OFFL_SIR_LRM_220170722T112055_20170722T113637_C001 CS_OFFL_SIR_LRM_220170722T114022_20170722T114905_C001
CS_OFFL_SIR_LRM_2_201707221114022_201707221114905_C001 CS_OFFL_SIR_LRM_2_201707221115219_201707221121346_C001
CS_OFFL_SIR_LRM_220170722T122630_20170722T122736_C001 CS_OFFL_SIR_LRM_220170722T125106_20170722T131600_C001
CS_OFFL_SIR_LRM_220170722T133153_20170722T135528_C001
CS_OFFL_SIR_LRM_220170722T140044_20170722T140722_C001
CS_OFFL_SIR_LRM_220170722T140752_20170722T140856_C001
CS_OFFL_SIR_LRM_220170722T142425_20170722T143849_C001
CS_OFFL_SIR_LRM_220170722T144425_20170722T145414_C001
CS_OFFL_SIR_LRM_220170722T151024_20170722T153008_C001
CS_OFFL_SIR_LRM_220170722T153033_20170722T153554_C001
CS_OFFL_SIR_LRM_220170722T154641_20170722T154808_C001
CS_OFFL_SIR_LRM_220170722T160007_20170722T163334_C001
CS_OFFL_SIR_LRM_220170722T164955_20170722T165049_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
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
Error (Retracker 2) Height Error (Retracker 2), Height Error	records
(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
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), 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
(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
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
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
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
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Surface Model Unavailable Height Error (Retracker 2), Height Error	No DEM or Slope Model was used for the location of one or more records
(Retracker 3), Backser 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(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
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (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
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (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
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
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
(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
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (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
(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
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Height Error (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
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2), 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
(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
Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one of more There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2)	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
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 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 and a height error for Retracker 2 for one or more records
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
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 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 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 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 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 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

CS_OFFL_SIR_LRM_2__20170722T165714_20170722T170446_C001 CS OFFL SIR LRM 2 20170722T172332 20170722T172736 C001 CS OFFL SIR LRM 2 20170722T173643 20170722T174857 C001 CS OFFL SIR LRM 2 20170722T175143 20170722T181253 C001 CS_OFFL_SIR_LRM_2_20170722T183010_20170722T184013_C001 CS OFFL SIR LRM 2 20170722T184201 20170722T184918 C001 CS_OFFL_SIR_LRM_2__20170722T185002_20170722T185435_C001 CS OFFL SIR LRM 2 20170722T190345 20170722T190406 C001 CS OFFL SIR LRM 2 20170722T191639 20170722T195156 C001 CS_OFFL_SIR_LRM_2__20170722T201051_20170722T202321_C001 CS_OFFL_SIR_LRM_2__20170722T202328_20170722T204104_C001 CS OFFL SIR LRM 2 20170722T205506 20170722T210127 C001 CS_OFFL_SIR_LRM_2__20170722T210211_20170722T211415_C001 CS OFFL SIR LRM 2 20170722T211619 20170722T213108 C001 CS OFFL SIR LRM 2 20170722T214803 20170722T215828 C001 CS_OFFL_SIR_LRM_2__20170722T220447_20170722T221940_C001 CS OFFL SIR LRM 2 20170722T225155 20170722T225239 C001 CS OFFL SIR LRM 2 20170722T225616 20170722T230946 C001 CS_OFFL_SIR_LRM_2__20170722T232556_20170722T235820_C001 CS_OFFL_SIR_SIN_2__20170722T000157_20170722T000442_C001 CS OFFL SIR SIN 2 20170722T001105 20170722T001410 C001 CS_OFFL_SIR_SIN_2__20170722T014138_20170722T014252_C001 CS_OFFL_SIR_SIN_2__20170722T014815_20170722T014821_C001 CS OFFL SIR SIN 2 20170722T015146 20170722T015304 C001 CS_OFFL_SIR_SIN_2__20170722T024154_20170722T024248_C001 CS_OFFL_SIR_SIN_2__20170722T032120_20170722T032244_C001 CS OFFL SIR SIN 2 20170722T033052 20170722T033205 C001 CS_OFFL_SIR_SIN_2__20170722T050057_20170722T050222_C001 CS_OFFL_SIR_SIN_2__20170722T050741_20170722T051048_C001 CS OFFL SIR SIN 2 20170722T055914 20170722T055939 C001 CS_OFFL_SIR_SIN_2_20170722T064040_20170722T064325_C001 CS OFFL SIR SIN 2 20170722T064641 20170722T065016 C001 CS OFFL SIR SIN 2 20170722T082119 20170722T082353 C001 CS OFFL SIR SIN 2 20170722T082547 20170722T082825 C001 CS OFFL SIR SIN 2 20170722T083027 20170722T083210 C001 CS_OFFL_SIR_SIN_2__20170722T091627_20170722T091748_C001 CS_OFFL_SIR_SIN_2__20170722T092200_20170722T092314_C001 CS OFFL SIR SIN 2 20170722T095652 20170722T100237 C001 CS_OFFL_SIR_SIN_2_20170722T100502_20170722T100530_C001 CS_OFFL_SIR_SIN_2__20170722T100954_20170722T101133_C001 CS_OFFL_SIR_SIN_2_20170722T105057_20170722T105143_C001 CS_OFFL_SIR_SIN_2__20170722T105558_20170722T105808_C001 CS_OFFL_SIR_SIN_2__20170722T113842_20170722T114022_C001 CS OFFL SIR SIN 2 20170722T114905 20170722T115115 C001 CS OFFL SIR SIN 2 20170722T123511 20170722T123958 C001 CS_OFFL_SIR_SIN_2__20170722T131817_20170722T131943_C001 CS OFFL SIR SIN 2 20170722T132128 20170722T132229 C001 CS_OFFL_SIR_SIN_2__20170722T132658_20170722T132919_C001

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

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 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 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 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 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 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 There is a height and backscatter error for Retracker 2 for one or more 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 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 An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more 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 An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more 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 An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more 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 An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more 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 An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more

CS_OFFL_SIR_SIN_220170722T145752_20170722T150145_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T150736_20170722T150901_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T154825_20170722T154846_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_220170722T154851_20170722T154918_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_220170722T163739_20170722T164051_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T164607_20170722T164716_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T181515_20170722T181931_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T182507_20170722T182631_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T190441_20170722T190846_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T195301_20170722T195430_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T200250_20170722T200436_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T204104_20170722T204229_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T204648_20170722T204741_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T213206_20170722T213348_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T213920_20170722T213926_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T214049_20170722T214310_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T222443_20170722T222615_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_220170722T222619_20170722T222655_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_220170722T231101_20170722T231303_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T231833_20170722T231840_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170722T231948_20170722T232421_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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_LRM_1B	138	138	138	0	0
SIR_LRM_2	138	138	138	0	0
SIR_LRMI2_	138	138	138	0	0
SIR_SAR_1B	104	104	104	0	0
SIR_SAR_2	103	103	103	0	0
SIR_SARI2_	103	103	103	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_SIN_2	110	110	110	0	0
SIR_SINI2	110	110	110	0	0
SIR_GDR_2	15	15	15	0	0

6.1 QCC Errors

Number of products with QCC errors:	0	
6.2 QCC Warnings		
Number of QCC reports with warnings	0	
6.2 Missing QCC Reports		
Number of products with missing QCC reports:	171	