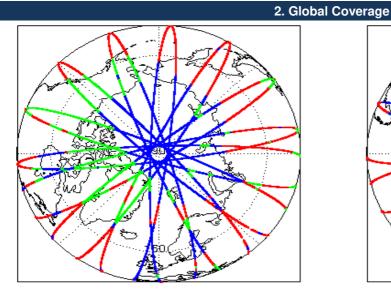


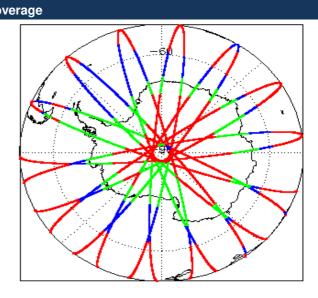
QA4EO Daily Report for OFFLINE data:

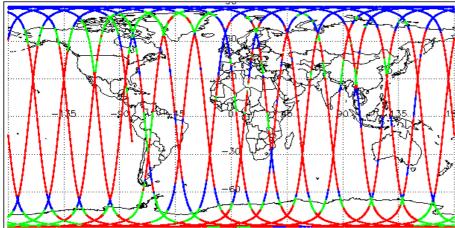
<u>02/07/2021</u>

1. Overview				
Report Production Date:	08-Oct-2021	Check Server check: science-pds.cryosat.esa.int	Status Nominal	
	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:		Product Software Check	Nominal	
	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		Product Header Analysis	Nominal	
		Star Tracker Usage Check	Nominal	
		L1B Tracking Flag Check	See Section 4.4	
		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 4.8 and 5.5	
		QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3	

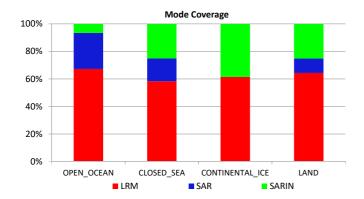
Mission / Instrument News		
01-Jul-2021	None	
02-Jul-2021	None	
03-Jul-2021	Nothing planned	

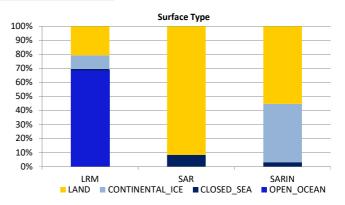






Mode Coverage (%)		
	LRM	65.9
	SAR	20.0
	SARIn	14.1





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided be	elow.
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SIRAL i	nstrument	(s) in	use
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SIRAL - A e:

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

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing. 0

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210701T234741_20210702T001003_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T001126_20210702T001946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T002240_20210702T002304_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T003349_20210702T004005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T004008_20210702T004019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T004021_20210702T004158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T004250_20210702T004328_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T011522_20210702T011859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T012553_20210702T015301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T015303_20210702T015307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T015309_20210702T015316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T015319_20210702T015325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T015328_20210702T015401_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T021509_20210702T021642_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T021654_20210702T022345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T022507_20210702T022534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T022536_20210702T025036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T035419_20210702T035828_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T035901_20210702T040050_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T040143_20210702T040607_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T040609_20210702T040922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T040947_20210702T041053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T041055_20210702T041056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T041059_20210702T041227_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T041229_20210702T041345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T041347_20210702T041946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T053334_20210702T053345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T053715_20210702T053846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T053857_20210702T054003_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T054322_20210702T054445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T054628_20210702T055105_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T055117_20210702T060820_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T062414_20210702T070017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T072216_20210702T072654_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T072733_20210702T074529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T080412_20210702T084016_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T091159_20210702T092520_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T093357_20210702T093555_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T094309_20210702T095817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T100019_20210702T100941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210702T101302_20210702T101955_D001	Loss of echo	The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20210702T103537 20210702T104900 D001 CS OFFL SIR LRM 1B 20210702T105427 20210702T105434 D001 CS_OFFL_SIR_LRM_1B_20210702T105437_20210702T105520_D001 CS_OFFL_SIR_LRM_1B_20210702T105523_20210702T105543_D001 CS_OFEL_SIB_LBM_1B_20210702T105547_20210702T105632_D001 CS_OFFL_SIR_LRM_1B_20210702T105642_20210702T105643_D001 CS_OFFL_SIR_LRM_1B_20210702T105645_20210702T105711_D001 CS_OFFL_SIR_LRM_1B_20210702T105715_20210702T105723_D001 CS OFFL SIR LRM 1B 20210702T105725 20210702T105751 D001 CS_OFFL_SIR_LRM_1B_20210702T105754_20210702T110136_D001 CS OFFL SIR LRM 1B 20210702T110138 20210702T110339 D001 CS_OFFL_SIR_LRM_1B_20210702T110402_20210702T110412_D001 CS OFFL SIB LBM 1B 20210702T111217 20210702T111523 D001 CS_OFFL_SIR_LRM_1B_20210702T114537_20210702T114641_D001 CS_OFFL_SIR_LRM_1B_20210702T114956_20210702T115013_D001 CS OFFL SIR LRM 1B 20210702T115017 20210702T115156 D001 CS_OFFL_SIR_LRM_1B_20210702T115158_20210702T115533_D001 CS_OFFL_SIR_LRM_1B_20210702T115537_20210702T115949_D001 CS OFFL SIR LRM 1B 20210702T121518 20210702T124718 D001 CS OFFL SIR LRM 1B 20210702T125033 20210702T125249 D001 CS_OFFL_SIR_LBM_1B_20210702T125252_20210702T125856_D001 CS OFFL SIR LRM 1B 20210702T130233 20210702T132723 D001 CS OFFL SIR LRM 1B 20210702T133043 20210702T133517 D001 CS OFFL SIR LRM 1B 20210702T133646 20210702T133714 D001 CS_OFFL_SIR_LRM_1B_20210702T135019_20210702T135102_D001 CS_OFFL_SIR_LRM_1B_20210702T135224_20210702T135609_D001 CS OFFL SIR LRM 1B 20210702T135823 20210702T135857 D001 CS_OFFL_SIR_LRM_1B_20210702T135859_20210702T135920_D001 CS OFFL SIR LRM 1B 20210702T135922 20210702T140011 D001 CS OFFL SIR LRM 1B 20210702T140013 20210702T142607 D001 CS OFFL SIR LRM 1B 20210702T144125 20210702T150623 D001 CS OFFL SIR LRM 1B 20210702T150625 20210702T151004 D001 CS OFFL SIR LRM 1B 20210702T151048 20210702T151221 D001 CS OFFL SIR LRM 1B 20210702T151302 20210702T151656 D001 CS OFFL SIR LRM 1B 20210702T153259 20210702T160445 D001 CS_OFFL_SIR_LRM_1B_20210702T162956_20210702T163433_D001 CS_OFFL_SIR_LRM_1B_20210702T163807_20210702T164553_D001 CS OFFL SIR LRM 1B 20210702T164836 20210702T164844 D001 CS_OFFL_SIR_LRM_1B_20210702T164847_20210702T164912_D001 CS_OFFL_SIR_LRM_1B_20210702T164930_20210702T165103_D001 CS OFFL SIR LRM 1B 20210702T165103 20210702T165236 D001 CS_OFFL_SIR_LRM_1B_20210702T182107_20210702T182625_D001 CS OFFL SIR LRM 1B 20210702T182732 20210702T182812 D001 CS OFFL SIR LRM 1B 20210702T182822 20210702T182841 D001 CS OFFL SIR LRM 1B 20210702T182911 20210702T182949 D001 CS_OFFL_SIR_LBM_1B_20210702T193109_20210702T193522_D001 CS OFFL SIR LRM 1B 20210702T202614 20210702T203153 D001 CS OFFL SIR LRM 1B 20210702T204518 20210702T204654 D001 CS OFFL SIB LBM 1B 20210702T204659 20210702T204714 D001 CS_OFFL_SIR_LRM_1B_20210702T204716_20210702T205614_D001 CS_OFFL_SIR_LRM_1B_20210702T212115_20210702T213337_D001 CS_OFFL_SIR_LRM_1B_20210702T220534_20210702T221105_D001 CS_OFFL_SIR_LRM_1B_20210702T221509_20210702T222440_D001 CS OFFL SIR LRM 1B 20210702T222642 20210702T223402 D001 CS OFFL SIR LRM 1B 20210702T230304 20210702T230607 D001 CS OFFL SIR LRM 1B 20210702T230610 20210702T230619 D001 CS OFFL SIR LRM 1B 20210702T230622 20210702T230642 D001 CS_OFFL_SIR_LRM_1B_20210702T230647_20210702T230653_D001 CS OFFL SIR LRM 1B 20210702T230832 20210702T230903 D001 CS OFFL SIR LRM 1B 20210702T231505 20210702T231630 D001 CS_OFFL_SIR_LRM_1B_20210702T231635_20210702T232318_D001 CS_OFFL_SIR_LRM_1B_20210702T232448_20210702T232802_D001 CS_OFEL_SIR_LBM_1B_20210702T234414_20210702T234908_D001 CS_OFFL_SIR_LRM_1B_20210702T234910_20210702T234926_D001 CS_OFFL_SIR_LRM_1B_20210702T234938_20210702T235309_D001 CS_OFFL_SIR_LRM_1B_20210702T235311_20210702T235334_D001 Loss of echo oss of echo Loss of echo oss of echo Loss of echo oss of echo Loss of echo

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210702T235337_20210702T235426_D001	
CS_OFFL_SIR_LRM_1B_20210702T235644_20210702T235743_D001	

Loss of echo Loss of echo

4.5 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: 0

4.6 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:

4.7 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:

4.8 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: 3

Number of pro

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210702T001126_20210702T001946_D001	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_20210702T080412_20210702T084016_D001	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_20210702T101302_20210702T101955_D001	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. 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.

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.

0

53

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210701T234741_20210702T001003_D001	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_220210702T001126_20210702T001946_D001	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_220210702T003349_20210702T004005_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210702T004858_20210702T011033_D001	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_20210702T012553_20210702T015301_D001	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_20210702T021509_20210702T021642_D001	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_20210702T022536_20210702T025036_D001	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_20210702T030535_20210702T033900_D001	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_220210702T035419_20210702T035828_D001	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_220210702T040609_20210702T040922_D001	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_220210702T042455_20210702T042940_D001	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_220210702T044529_20210702T051834_D001	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_220210702T055117_20210702T060820_D001	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_220210702T062414_20210702T070017_D001	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_220210702T071010_20210702T071201_D001	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_220210702T072216_20210702T072654_D001	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_220210702T072733_20210702T074529_D001	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_220210702T080412_20210702T084016_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210702T085235_20210702T091113_D001	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_220210702T091159_20210702T092520_D001	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_220210702T094309_20210702T095817_D001	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_20210702T100019_20210702T100941_D001	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_220210702T103146_20210702T103434_D001	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_220210702T103537_20210702T104900_D001	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_220210702T112245_20210702T113721_D001	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_220210702T114956_20210702T115013_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210702T121518_20210702T124718_D001	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_220210702T130233_20210702T132723_D001	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_220210702T133646_20210702T133714_D001	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_220210702T140013_20210702T142607_D001	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_220210702T144125_20210702T150623_D001	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_220210702T151302_20210702T151656_D001	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_220210702T153259_20210702T160445_D001	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_220210702T171106_20210702T174422_D001	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_220210702T180004_20210702T181749_D001	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_20210702T184847_20210702T192300_D001	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_220210702T194004_20210702T200609_D001	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_20210702T200613_20210702T201337_D001	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_220210702T201337_20210702T201347_D001	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_20210702T202614_20210702T203153_D001	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_20210702T203213_20210702T204038_D001	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_20210702T204518_20210702T204654_D001	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_220210702T204716_20210702T205614_D001	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_20210702T212115_20210702T213337_D001	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_20210702T213534_20210702T214406_D001	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_20210702T214533_20210702T215254_D001	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_20210702T221509_20210702T222440_D001	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_20210702T222642_20210702T223402_D001	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_20210702T230832_20210702T230903_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210702T231635_20210702T232318_D001	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_20210702T232448_20210702T232802_D001	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_20210702T234938_20210702T235309_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210702T235311_20210702T235334_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of 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	162	162	162	0	0
SIR_SAR_1B	112	112	112	0	0
SIR_SIN_1B	105	105	105	0	0
SIR_LRM_2	162	162	157	5	0
SIR_SAR_2	105	112	112	0	0
SIR_SIN_2	112	105	103	2	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-		
SIR_GDR_2_	15	15	15	15	15	15	15	15					
Test Description	Test Description Key:												
Abbreviation	Test na	Test name			Details								
MPHDUTNCDF	MPH_De	MPH_Delta_UT1_NetCDF			Delta_UT1 mismatch								
MPHXPFNCDF	MPH_X_	MPH_X_Position_Float_v2_NetCDF			X_Position mismatch (DBL float (GDR), rounded to 100)								
MPHXVFNCDF	MPH_X_	MPH_X_Velocity_Float_v2_NetCDF			X_Velocity mismatch (DBL float (GDR), rounded to 1)								
MPHYPFNCDF	MPH_Y_	MPH_Y_Position_Float_v2_NetCDF Y_F			Y_Position mismatch (DBL float (GDR), rounded to 100)								
MPHYVFNCDF	MPH_Y_	Velocity_Float_v2_	NetCDF	Y_Velocity mismate	ch (DBL float (GDR	l), rounded to 1)							
MPHZPFNCDF	MPH_Z_	Position_Float_v2_	NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)									
MPHZVFNCDF	MPH_Z_	Velocity_Float_v2_	NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)									

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6.2 QCC Warnings								
Number of QCC reports with warnings 8								
Total number of occurrences of each warning								
Product Type	AXDME	AXSMMEOCI	-	-	-	-	-	
SIR_GDR_2_	0	1						
SIR_LRM_2_	0	5						
•	1							
Test Description Key:								
Abbreviation	Test name			Details				
AXDME	AttributeXrefDemMustExist			The xref_dem attribute is mandatory in SIN products over continental ice				
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce			The xref_slope_model is mandatory in LRM products over continental ice				
6.2 Missing QCC Reports								
Number of products with missing QCC reports: 1								
Product name								
CS_OFFL_SIR_GDR_2_20210702T231415_20210703T005330_D002								