

QA4EO Daily Report for OFFLINE data:

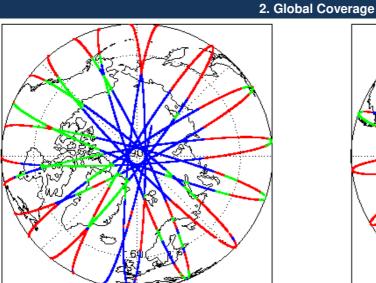
01/08/2020

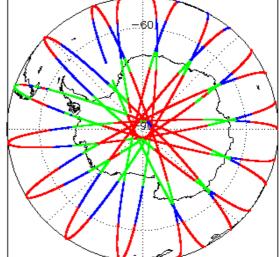
1. Overview

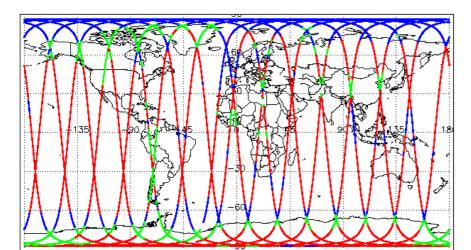
Banart Braduation Data	02 San 2020	Check	Status
Report Production Date:	02-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal
Processor Usea:	CryoSat Ice Processor	Product Software Check	Nominal
Data Used:		Product Format Check	Nominal
Data Osed:	L1B and L2 OFFLINE Data	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

31-Jul-2020	CRYO2ICE Orbit raising activities. SIRAL unavailability from 30/07/2020 22:23:16 to 31/07/2020 00:10:26
01-Aug-2020	None
02-Aug-2020	Nothing planned

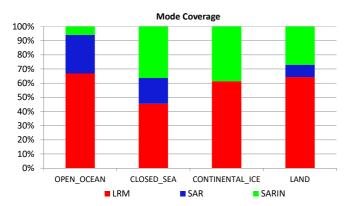


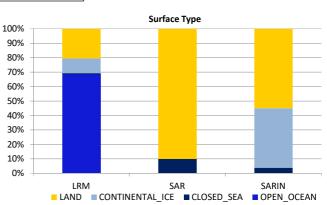




Mode Coverage (%)

LRM	65.7
SAR	20.4
SARIn	14.0





3. Instrument Configuration

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. 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_20200801T005921_20200801T011341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T012049_20200801T013515_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T020702_20200801T022103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T022855_20200801T023057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T023816_20200801T025317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T025518_20200801T030441_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T030724_20200801T030815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T030817_20200801T031457_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T032723_20200801T034342_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T034350_20200801T034403_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T035106_20200801T035219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044040_20200801T044202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044204_20200801T044210_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044549_20200801T044624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044629_20200801T044638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044648_20200801T044658_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044700_20200801T044713_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T044715_20200801T045440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T050926_20200801T054206_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T054538_20200801T054746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T054815_20200801T055348_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T062539_20200801T063046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T063208_20200801T063217_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T064520_20200801T064606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T065308_20200801T065309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T065311_20200801T065315_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T065318_20200801T065323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T065326_20200801T065346_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T065353_20200801T065413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T065416_20200801T072044_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T073651_20200801T075606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T075609_20200801T080358_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T080400_20200801T080436_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T080438_20200801T080442_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T080450_20200801T080451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T080454_20200801T080730_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T080803_20200801T081400_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T092337_20200801T093115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T093243_20200801T093801_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T093945_20200801T094114_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T094332_20200801T094438_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200801T094451_20200801T094713_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T100610_20200801T103909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T111621_20200801T112113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T112146_20200801T112325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T114232_20200801T120508_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T120555_20200801T121752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T122620_20200801T123017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T132103_20200801T133539_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T134021_20200801T134143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T134146_20200801T134152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T134154_20200801T134447_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T134509_20200801T135724_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T141542_20200801T142841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T143055_20200801T144744_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T150036_20200801T150651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T151015_20200801T152041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T152221_20200801T153614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T155545_20200801T155722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T155726_20200801T155809_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T160105 20200801T160113 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T160116 20200801T160119 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T160124 20200801T160125 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T161002 20200801T161013 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T161015 20200801T161120 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T161150_20200801T161434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T161557_20200801T162247_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T163902_20200801T164754_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T165117_20200801T165128_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T165131_20200801T165431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T173048_20200801T180429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T182134_20200801T182611_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T190253 20200801T190618 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T195755_20200801T200302_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T200520 20200801T200604 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T200607_20200801T200640_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T200642 20200801T200752 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T200754_20200801T202704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T203720_20200801T204527_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T213720_20200801T213811_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T214047_20200801T214420_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T214438 20200801T214517 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T215058 20200801T215555 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T215725 20200801T220252 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T220256 20200801T220300 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T222915_20200801T225028_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T225313_20200801T230454_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200801T232224 20200801T232307 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T232401_20200801T232537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T232613_20200801T233106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200801T235821_20200802T000116_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing.

0

Number of products with errors:

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:
 0

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:

0

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: 5

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200801T020702_20200801T022103_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_20200801T032723_20200801T034342_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_20200801T161557_20200801T162247_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_20200801T163902_20200801T164754_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_20200801T173048_20200801T180429_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:

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.

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_OFFL_SIR_LRM_2_20200801T000618_20200801T000703_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_20200801T001719_20200801T002142_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_220200801T002235_20200801T004014_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_220200801T005921_20200801T011341_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_20200801T011502_20200801T011607_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_220200801T012049_20200801T013515_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200801T014743_20200801T020533_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_220200801T020702_20200801T022103_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CRUMAL DAYL _ RECONSTRUCTION ILLUSTION IMPRICE Description Description Description CRUMAL DAYL _ RECONSTRUCTION ILLUSTION Annue Media Ullustication Period 2014 Size Media and used for a serie and used	CS_OFFL_SIR_LRM_220200801T023816_20200801T025317_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
Concent Page Care (Information Care Care Care Care Care Care Care Care	CS_OFFL_SIR_LRM_220200801T025518_20200801T030441_D001	(Retracker 3), Backscatter Error	
DB_CPFL_SR_LINUREDUCT TO SPLATE DOWN PRIVATE SING CONTRACT SING AND ADDRESS TO SPLATE THE SING CONTRACT SING ADDRESS TO SPLATE THE SPLATE ADDRESS TO SPLATE THE SING ADDRESS TO SPLATE THE SPLATE ADDRESS TO SPLATE ADDRESS TO SPLAT	CS_OFFL_SIR_LRM_220200801T030724_20200801T030815_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
GS GFL SR LEW 2 2000001120100 Control SR Lew 2 Automatic 2 Automatic 2 GS GFL SR LEW 2 2000001120100 Kept Exerc (National 2) The set is a height are backeting over the Residur 2 are or more incode. GS GFL SR LEW 2 2000001120000 Test is a height are backeting over the Residur 2 and a height are to a test and an up to the Residur 2 and a height are to a test an up to a test and an up to the Residur 2 and a height are to a test and an up to the Residur 2 and a height are to a test and an up to the Residur 2 and a height are to a test and an up to the Residur 2 and a height are to a test and an up to the Residur 2 and a height are to a test an up to the Residur 2 and a height are to a test an up to test and a test an up to test and a test and an up to the Residur 2 and a height are to a test and an up to test and a test and an up to test and a test and an up to test and an up to test and a test and an up to test and an up to test and a test and an up to test and a test and an up to test and an up to test and an up to test and a test and an up to test and an up totest an up totest an up to test and an up totest and an	CS_OFFL_SIR_LRM_220200801T032723_20200801T034342_D001	(Retracker 3), Backscatter Error	
Contrel and Dan Z. Account (1992) 2. Account (1992) 2. Control (199	CS_OFFL_SIR_LRM_220200801T035106_20200801T035219_D001	(Retracker 3), Backscatter Error	
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CS_OFFL_SIR_LRM_2_20200801T143055_20200801T144744_D001 (Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error CS_OFFL_SIR_LRM_2_20200801T150036_20200801T150651_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20200801T151015_20200801T152041_D001 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 2 and a height error	CS_OFFL_SIR_LRM_220200801T141542_20200801T142841_D001		
CS_OFFL_SIR_LRM_2_20200801T151015_20200801T152041_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220200801T143055_20200801T144744_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20200801T151015_20200801T152041_D001 (Retracker 3), Backscatter Error for Baracker 3 for December 2 and a neight error for Baracker 3 for December 3 and a neight error for December 3 and a neight error for Baracker 3 for December 3 and a neight error for December 3 and a	CS_OFFL_SIR_LRM_220200801T150036_20200801T150651_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	CS_OFFL_SIR_LRM_220200801T151015_20200801T152041_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20200801T152221_20200801T153614_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200801T152221_20200801T153614_D001		

CS_OFFL_SIR_LRM_220200801T160127_20200801T160445_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_220200801T161150_20200801T161434_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_220200801T161557_20200801T162247_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_220200801T163902_20200801T164754_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200801T165443_20200801T171458_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_220200801T173048_20200801T180429_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_220200801T181906_20200801T182011_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_220200801T183022_20200801T185416_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_220200801T191003_20200801T194203_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_220200801T195755_20200801T200302_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_220200801T200754_20200801T202704_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_220200801T205019_20200801T212247_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_220200801T213536_20200801T213703_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_220200801T222915_20200801T225028_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_220200801T225313_20200801T230454_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_220200801T231401_20200801T231846_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_220200801T233410_20200801T233919_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_220200801T234107_20200801T235128_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 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	148	148	148	0	0
SIR_SAR_1B	98	98	98	0	0
SIR_SIN_1B	99	99	99	0	0
SIR_LRM_2	148	148	144	4	0
SIR_SAR_2	99	98	98	0	0
SIR_SIN_2	98	99	97	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-
SIR GDR 2	14	14	14	14	14	14	14	14			

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Test Description Key:					
Abbreviation	Test name	Details			
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch			
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)			
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)			
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)			
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), 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)			
STRUCTURESIZEANDR	STRUCTURE_SIZE_AND_READ	Under investigation.			

6.2 QCC Warnings

Product Type	AXDME	AXSMMEOCI	-	-	-	-	-		
SIR_LRM_2_	0	4							
SIR SIN 2	2	0							
Abbreviation	Test name				Details				
XDME	AttributeXrefDemMustExist				The xref_dem attribute is mandatory in SIN products over continental ice				
XSMMEOCI	AttributeXrefSlope	ModelMustExistOverContinentalIc	e	The xref_slop	The xref_slope_model is mandatory in LRM products over continental ice				

Number of products with missing QCC reports:

0