



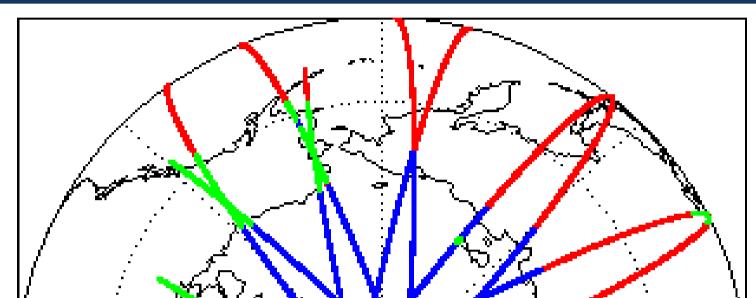
1. Overview

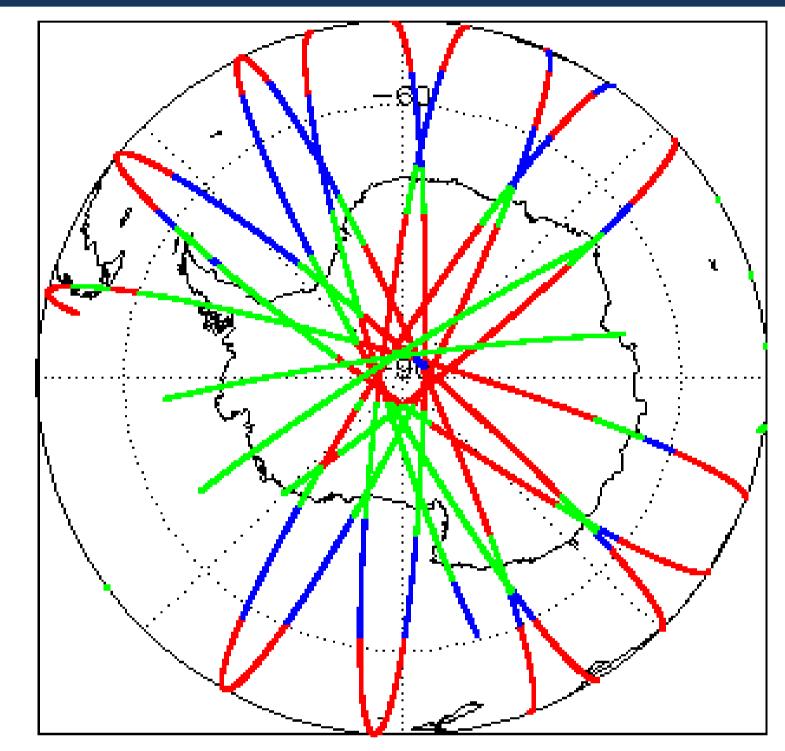
Report Production Date:	10-Sep-2020	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

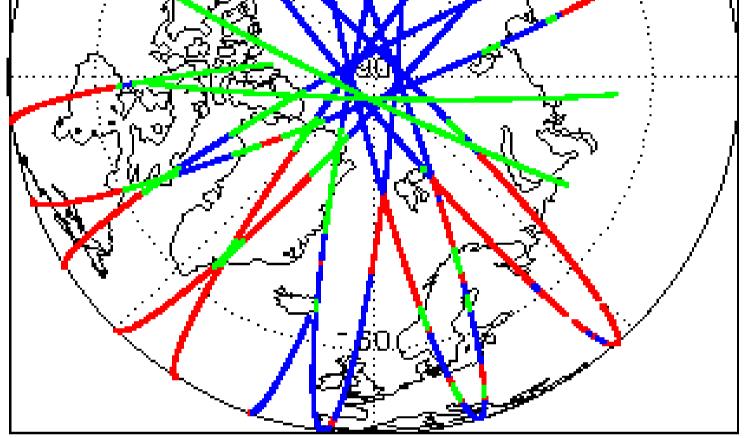
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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

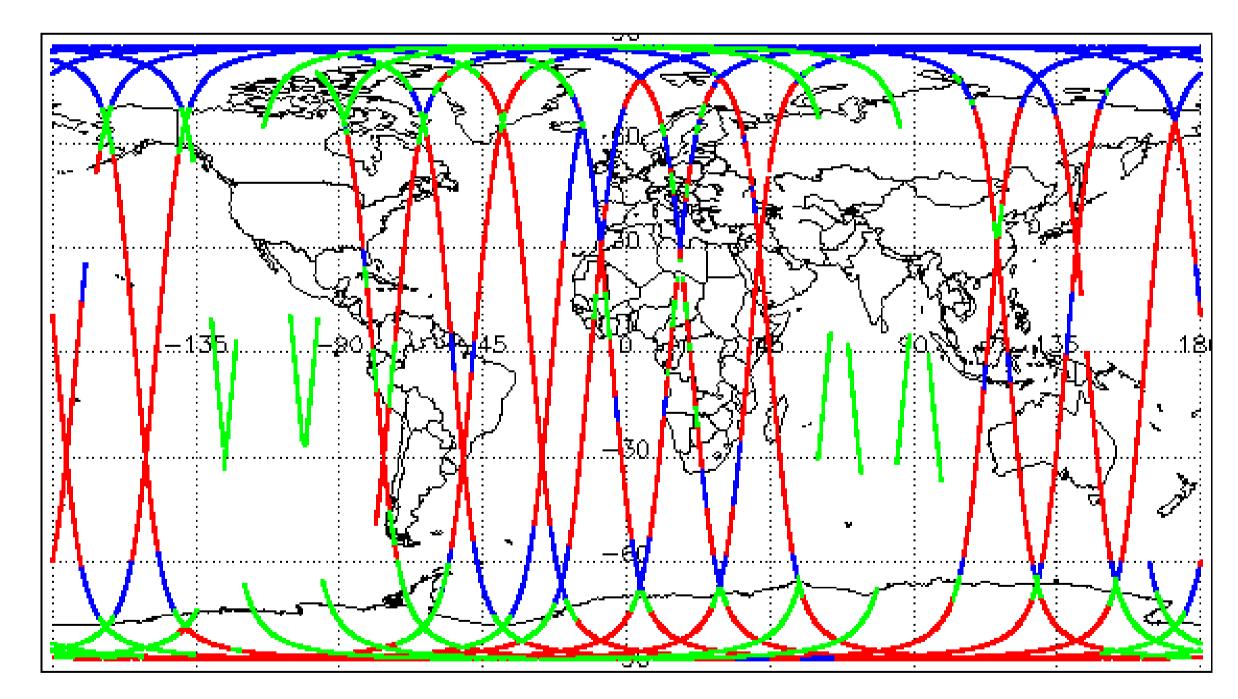
Mission / Instrument News		
10-Aug-2020	None	
11-Aug-2020	SIRAL Unavailability due to planned roll manoeuvre from 03:49:00 to 07:14:17 and from 16:22:00 to 19:33:34	
12-Aug-2020	Nothing planned	

2. Global Coverage





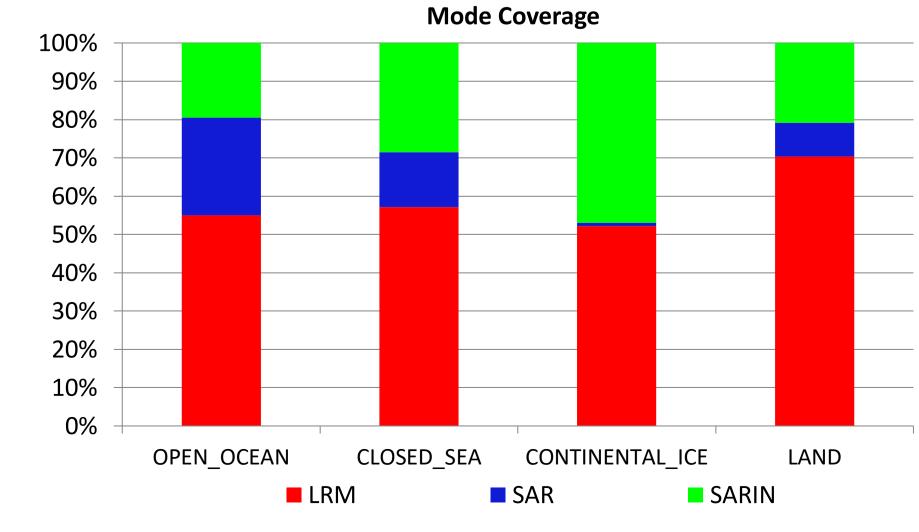


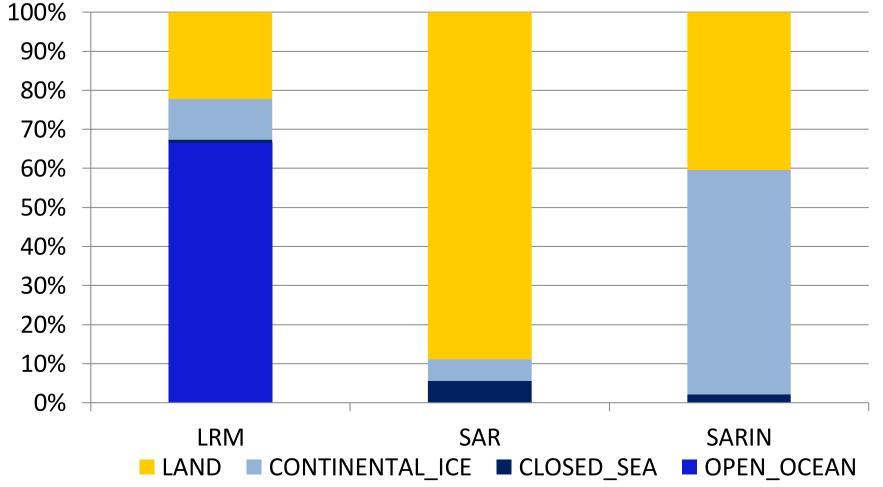




LRM	57.5
SAR	19.5
SARIn	23.0

Surface Type





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 Che	ck		
Each product, retrieved and unpacked from	n 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		
4.2 L1B Product Header Ana	lysis		
For all products, a series of pre-defined ch	ecks 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 Chec	k		
Each product is checked in order to ensure	a valid star tracker file has beer	used in processing.	
Number of products with errors:	0		
4.4 L1B Tracking Flags Check			
CryoSat L1B data includes a tracking flag f	or each measurement record. Th	ne 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.			

Number of products with errors:

65

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200811T004025_20200811T004217_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200811T005006_20200811T010639_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200811T011120_20200811T011946_D001 CS_OFFL_SIR_LRM_1B_20200811T011948_20200811T012013_D001 CS_OFFL_SIR_LRM_1B_20200811T012015_20200811T012047_D001 CS_OFFL_SIR_LRM_1B_20200811T012050_20200811T012538_D001 CS_OFFL_SIR_LRM_1B_20200811T015735_20200811T021154_D001 CS_OFFL_SIR_LRM_1B_20200811T021920_20200811T022130_D001 CS_OFFL_SIR_LRM_1B_20200811T022900_20200811T024344_D001 CS_OFFL_SIR_LRM_1B_20200811T024544_20200811T025504_D001 CS_OFFL_SIR_LRM_1B_20200811T025607_20200811T025649_D001 CS_OFFL_SIR_LRM_1B_20200811T025652_20200811T030522_D001 CS_OFFL_SIR_LRM_1B_20200811T031847_20200811T033010_D001 CS_OFFL_SIR_LRM_1B_20200811T033013_20200811T033315_D001 CS_OFFL_SIR_LRM_1B_20200811T033317_20200811T033332_D001 CS_OFFL_SIR_LRM_1B_20200811T033336_20200811T033435_D001 CS_OFFL_SIR_LRM_1B_20200811T033939_20200811T034900_D001 CS_OFFL_SIR_LRM_1B_20200811T072735_20200811T075445_D001 CS_OFFL_SIR_LRM_1B_20200811T075546_20200811T075628_D001 CS_OFFL_SIR_LRM_1B_20200811T075641_20200811T075801_D001 CS_OFFL_SIR_LRM_1B_20200811T080039_20200811T080526_D001 CS_OFFL_SIR_LRM_1B_20200811T085730_20200811T090252_D001 CS_OFFL_SIR_LRM_1B_20200811T091336_20200811T091707_D001 CS_OFFL_SIR_LRM_1B_20200811T091830_20200811T092312_D001 CS_OFFL_SIR_LRM_1B_20200811T092334_20200811T092536_D001 CS_OFFL_SIR_LRM_1B_20200811T092649_20200811T092833_D001 CS_OFFL_SIR_LRM_1B_20200811T093505_20200811T093539_D001 CS_OFFL_SIR_LRM_1B_20200811T093616_20200811T093622_D001 Loss 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_20200811T113311_20200811T120815_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T131128_20200811T131846_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T131850_20200811T131907_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T131909_20200811T132612_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T133053_20200811T132612_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T133053_20200811T13303_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T133206_20200811T133203_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T133206_20200811T134747_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T140529_20200811T141913_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T140529_20200811T141913_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T14203_20200811T143753_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T14203_20200811T143753_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T14573_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T14573_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T14573_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200811T14573_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200811T093946_20200811T094001_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200811T133156_20200811T133203_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200811T133206_20200811T134747_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200811T140529_20200811T141913_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200811T142203_20200811T143753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200811T14203_20200811T143753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200811T145030_20200811T145715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200811T145030_20200811T145715_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200811T131909_20200811T132612_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200811T145030_20200811T145715_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200811T140529_20200811T141913_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200811T142203_20200811T143753_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200811T145717_20200811T145812_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200811T145030_20200811T145715_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200811T145717_20200811T145812_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200811T145814_20200811T145825_D001
CS_OFFL_SIR_LRM_1B_20200811T150054_20200811T151114_D001
CS_OFFL_SIR_LRM_1B_20200811T160749_20200811T161715_D001
CS_OFFL_SIR_LRM_1B_20200811T194623_20200811T195328_D001
CS_OFFL_SIR_LRM_1B_20200811T195401_20200811T195557_D001
CS_OFFL_SIR_LRM_1B_20200811T195600_20200811T195607_D001
CS_OFFL_SIR_LRM_1B_20200811T195610_20200811T195621_D001
CS_OFFL_SIR_LRM_1B_20200811T195623_20200811T195709_D001
CS_OFFL_SIR_LRM_1B_20200811T195711_20200811T195722_D001
CS_OFFL_SIR_LRM_1B_20200811T195725_20200811T200208_D001
CS_OFFL_SIR_LRM_1B_20200811T200211_20200811T200629_D001
CS_OFFL_SIR_LRM_1B_20200811T200632_20200811T201501_D001
CS_OFFL_SIR_LRM_1B_20200811T204142_20200811T211320_D001
CS_OFFL_SIR_LRM_1B_20200811T212815_20200811T212844_D001
CS_OFFL_SIR_LRM_1B_20200811T213208_20200811T213355_D001
CS_OFFL_SIR_LRM_1B_20200811T213440_20200811T213522_D001
CS_OFFL_SIR_LRM_1B_20200811T214455_20200811T214827_D001
CS_OFFL_SIR_LRM_1B_20200811T214850_20200811T214854_D001
CS_OFFL_SIR_LRM_1B_20200811T214856_20200811T215038_D001
CS_OFFL_SIR_LRM_1B_20200811T224342_20200811T225515_D001
CS_OFFL_SIR_LRM_1B_20200811T231429_20200811T231600_D001
CS_OFFL_SIR_LRM_1B_20200811T231713_20200811T232157_D001
CS_OFFL_SIR_LRM_1B_20200811T232336_20200811T234150_D001
CS_OFFL_SIR_LRM_1B_20200811T234924_20200811T235147_D001

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4.5 LID Galibiation Usage Chec	Ν
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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	4.6 L1B Auxilary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre-det	ermined 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 r	ecord. The bit value of this flag indic	cates 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 meas	surement record. The bit value of thi	is 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 produ	ucts (all modes), but this is to be expected.		
Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.				
Number of products with errors: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_LRM_1B_20200811T131128_20200811T131846_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_20200811T145717_20200811T145812_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				

Loss of echo

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:

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:



0

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

48

0

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200811T000753_20200811T003049_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_220200811T005006_20200811T010639_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_220200811T011120_20200811T011946_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_220200811T012050_20200811T012538_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_220200811T013835_20200811T015520_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_220200811T015735_20200811T021154_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_220200811T022900_20200811T024344_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_220200811T024544_20200811T025504_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_220200811T031847_20200811T033010_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_220200811T033013_20200811T033315_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_220200811T033939_20200811T034900_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_220200811T072735_20200811T075445_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_220200811T080039_20200811T080526_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_220200811T081715_20200811T084949_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_220200811T090640_20200811T091047_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_220200811T093505_20200811T093539_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_220200811T094055_20200811T094437_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_220200811T095617_20200811T095806_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_220200811T100815_20200811T102933_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_220200811T104710_20200811T105651_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_220200811T105838_20200811T110320_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_220200811T113311_20200811T120815_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_220200811T122733_20200811T125910_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_220200811T131128_20200811T131846_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_220200811T131909_20200811T132612_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_220200811T133053_20200811T133152_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_220200811T133206_20200811T134747_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_220200811T140529_20200811T141913_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_220200811T142203_20200811T143753_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_220200811T150054_20200811T151114_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_220200811T151254_20200811T152633_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_220200811T154716_20200811T155659_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_220200811T160001_20200811T160505_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_220200811T160749_20200811T161715_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_220200811T194623_20200811T195328_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_220200811T195600_20200811T195607_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200811T200211_20200811T200629_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_220200811T200632_20200811T201501_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_220200811T201952_20200811T202401_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_220200811T204142_20200811T211320_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_220200811T212512_20200811T212553_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_220200811T212557_20200811T212729_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_220200811T214856_20200811T215038_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_220200811T215159_20200811T220153_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_220200811T221949_20200811T224057_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_220200811T224342_20200811T225515_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_220200811T230434_20200811T230704_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_220200811T232336_20200811T234150_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	117	117	117	0	0
SIR_SAR_1B	75	75	75	0	0
SIR_SIN_1B	90	90	90	0	0
SIR_LRM_2	117	117	108	9	0
SIR_SAR_2	90	74	74	0	0
SIR_SIN_2	74	90	88	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
SIR_GDR_2_	14	14	14	14	14	14	14	-			

Test Description Key:	est 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)				

6.2 QCC Warnings

Number of QCC reports with warnings

19

0

Total number of occurrences of each warning

	Total number of obcarrences of each warning						
Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	-	-	-
SIR_GDR_2_	0	3	2	2			
SIR_LRM_2_	0	8	1	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				
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean	The xref_ssb is mandatory in LRM products over open ocean				
AXWMMEOOO	AttributeXrefWindModelMustExistOverOpenOcean	The xref_wind_model attribute is mandatory in LRM products over open ocean				

6.2 Missing QCC Reports

Number of products with missing QCC reports: