

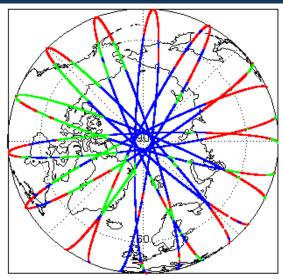
1. Overview

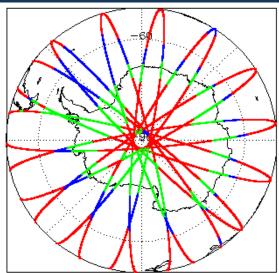
Report Production Date:	11-Jun-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

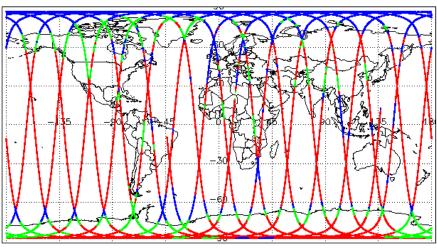
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

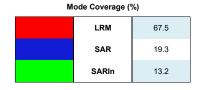
Mission / Instru	Mission / Instrument News				
12-May-2021	None				
13-May-2021	None				
14-May-2021	Nothing planned				

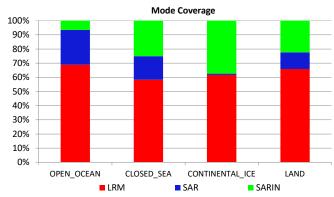
2. Global Coverage

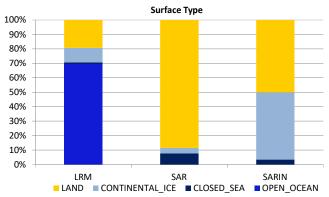












3. Instrument Configuration

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.

Test Failed

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.

Number of products with errors:

0

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.

umber of products with errors: 10

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210512T235933_20210513T000355_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T000357_20210513T002027_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T003723_20210513T004720_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T004826_20210513T005126_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T005340_20210513T010622_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T010655_20210513T010835_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T012238_20210513T012632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T012634_20210513T014329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T020734_20210513T020837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T021837_20210513T023423_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T023924_20210513T024703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030106_20210513T030652_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030655_20210513T030703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030705_20210513T030714_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030720_20210513T030759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030802_20210513T030813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030815_20210513T030819_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030822_20210513T030838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030841_20210513T030841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030844_20210513T030859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T030904_20210513T030916_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T031003_20210513T031043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T035252_20210513T041930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T041932_20210513T041933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T041936_20210513T041937_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T041939_20210513T042005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T042008_20210513T042028_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T042031_20210513T042104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T042109_20210513T042117_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T044414_20210513T045100_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T045227_20210513T051822_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T062241_20210513T062544_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T062617_20210513T062810_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T062859_20210513T063302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T063305_20210513T063308_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T063311_20210513T063459_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T063502_20210513T063510_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T063512_20210513T063525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T063530_20210513T063637_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T063703_20210513T064043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T064045_20210513T064657_D001	Loss of echo	The tracking echo is missing for one or more records

Company Comp	CS_OFFL_SIR_LRM_1B_20210513T070017_20210513T070600_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFF_SIR_LRM_18_202106137141252_202106137141638_D001 CS_OFF_SIR_LRM_18_20210613714170_20210613714174_D001 CS_OFF_SIR_LRM_18_20210613714170_20210613714174_D001 CS_OFF_SIR_LRM_18_20210613714224_20110613714220_D001 CS_OFF_SIR_LRM_18_20210613714224_20110613714220_D001 CS_OFF_SIR_LRM_18_20210613714224_20110613714240_D001 CS_OFF_SIR_LRM_18_20210613714224_20110613714400_D001 CS_OFF_SIR_LRM_18_20210613714224_20110613714400_D001 CS_OFF_SIR_LRM_18_20210613714204_20110613714400_D001 CS_OFF_SIR_LRM_18_20210613715400_20110613714400_D001 CS_OFF_SIR_LRM_18_20210613715400_20110613715400_D001 CS_OFF_SIR_LRM_18_20210613715400_20110613715400_D001 CS_OFF_SIR_LRM_18_20210613715400_20110613715400_D001 CS_OFF_SIR_LRM_18_20210613715400_20110613715400_D001 CS_OFF_SIR_LRM_18_20210613715600_20110613715600_D001 CS_OFF_SIR_LRM_18_20210613715600_20110613716004_D001 CS_OFF_SIR_LRM_18_20210613716000_20110613716004_D001 CS_OFF_SIR_LRM_18_20210613716000_20110613716004_D001 CS_OFF_SIR_LRM_18_20210613716000_201106137160000_D001 CS_OFF_SIR_LRM_18_20210613716000_201106137160000_D001 CS_OFF_SIR_LRM_18_20210613716000_201106137160000_D001 CS_OFF_SIR_LRM_18_202106137160000_201106137160000_D001 CS_OFF_SIR_LRM_18_202106137160000_201106137160000_D001 CS_OFF_SIR_LRM_18_202106137160000_201106137160000_D001 CS_OFF_SIR_LRM_18_202106137160000_201106137160000_D001 CS_OFF_SIR_LRM_18_202106137160000_20110613717000000000000000000000000000000			
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CS_OFFL_SIR_LRM_18_20210513T151746_02010513T152080_0001 CS_OFFL_SIR_LRM_18_20210513T151746_02010513T152080_0001 CS_OFFL_SIR_LRM_18_20210513T152082_0210513T152040_0001 CS_OFFL_SIR_LRM_18_20210513T15000_0210513T16041_0001 CS_OFFL_SIR_LRM_18_20210513T160005_0210513T160424_0001 CS_OFFL_SIR_LRM_18_20210513T160005_0210513T16043_0001 CS_OFFL_SIR_LRM_18_20210513T160005_0210513T160240_0001 CS_OFFL_SIR_LRM_18_20210513T160005_0210513T160238_0001 CS_OFFL_SIR_LRM_18_20210513T160005_02010513T160238_0001 CS_OFFL_SIR_LRM_18_20210513T160005_02010513T160238_0001 CS_OFFL_SIR_LRM_18_20210513T160005_02010513T160000001 CS_OFFL_SIR_LRM_18_20210513T1600000000000000000000000000000000000			
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CS_OFFL_SIR_LRM_1B_20210513T195721_20210513T190146_D001 CS_OFFL_SIR_LRM_1B_20210513T190622_20210513T191308_D001 CS_OFFL_SIR_LRM_1B_20210513T191553_20210513T191628_D001 CS_OFFL_SIR_LRM_1B_20210513T191553_20210513T191628_D001 CS_OFFL_SIR_LRM_1B_20210513T191645_20210513T191817_D001 CS_OFFL_SIR_LRM_1B_20210513T204821_20210513T205344_D001 CS_OFFL_SIR_LRM_1B_20210513T205455_20210513T205344_D001 CS_OFFL_SIR_LRM_1B_20210513T20555_20210513T205527_D001 CS_OFFL_SIR_LRM_1B_20210513T205537_20210513T205557_D001 CS_OFFL_SIR_LRM_1B_20210513T205609_20210513T205710_D001 CS_OFFL_SIR_LRM_1B_20210513T205037_20210513T20509_D001 CS_OFFL_SIR_LRM_1B_20210513T25537_20210513T20509_D001 CS_OFFL_SIR_LRM_1B_20210513T255332_20210513T20235D_D001 CS_OFFL_SIR_LRM_1B_20210513T255332_20210513T220555_D001 CS_OFFL_SIR_LRM_1B_20210513T25508_20210513T22555D_D001 CS_OFFL_SIR_LRM_1B_20210513T25508_20210513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T25508_20210513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T25508_20210513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T253142_20210513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T253142_20210513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T253142_20210513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T2313142_20513T225517_D001 CS_OFFL_SIR_LRM_1B_20210513T2313123142_2010513T231400_D001 CS_OFFL_SIR_LRM_1B_20210513T2313142_2010513T231400_D001 CS_OFFL_SIR_LRM_1B_20210513T23142_20210513T231440_D001 CS_OFFL_SIR_LRM_1B_20210513T23142_20210513T231442_D001 CS_OFFL_SIR_LRM_1B_20210513T23142_20210513T231442_D001 CS_OFFL_SIR_LRM_1B_20210513T231426_20210513T23143_D001 CS_OFFL_SIR_LRM_1B_20210513T231426_20210513T23143_D001 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010513T231433_D001 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010513T231433_D001 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010513T231433_D001 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010513T231433_D001 CS_OFFL_SIR_LRM_1B_20210513T231442_D0010513T231433_D001 CS_OFFL_SIR_LRM_1B_20210513T231442_D	CS_OFFL_SIR_LRM_1B_20210513T173807_20210513T173937_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T191682_20210513T191628_D001 CS_OFFL_SIR_LRM_1B_20210513T191653_20210513T191628_D001 CS_OFFL_SIR_LRM_1B_20210513T191645_20210513T191817_D001 CS_OFFL_SIR_LRM_1B_20210513T204821_20210513T205344_D001 CS_OFFL_SIR_LRM_1B_20210513T204821_20210513T205344_D001 CS_OFFL_SIR_LRM_1B_20210513T205455_20210513T205557_D001 CS_OFFL_SIR_LRM_1B_20210513T205557_2001 CS_OFFL_SIR_LRM_1B_20210513T205557_2001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or mo	CS_OFFL_SIR_LRM_1B_20210513T174011_20210513T174019_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210513T225332_20210513T225359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210513T225403_20210513T225505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210513T225508_20210513T225517_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210513T231234_20210513T231400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210513T231402_20210513T231414_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210513T231420_20210513T231424_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210513T231420_20210513T231424_D001 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_20210513T231426_20210513T231433_D001 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_20210513T211712_20210513T215029_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210513T231420_20210513T231424_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20210513T231426_20210513T231433_D001 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_20210513T231234_20210513T231400_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T231426_20210513T231433_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210513T231402_20210513T231414_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210513T231420_20210513T231424_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210513T231437_20210513T232309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210513T231426_20210513T231433_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210513T231437_20210513T232309_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210513T233734_20210513T233941_D001 Loss of echo The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210513T234827_20210514T000051_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.

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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210513T003723_20210513T004720_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210513T005340_20210513T010622_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210513T144235_20210513T144945_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210513T185721_20210513T190146_D001		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.

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
		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220210513T000357_20210513T002027_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	, ,	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220210513T005340_20210513T010622_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_220210513T010655_20210513T010835_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210513T012634_20210513T014329_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_220210513T014508_20210513T015922_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_220210513T021837_20210513T023423_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_220210513T023425_20210513T023719_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_220210513T023924_20210513T024703_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_220210513T024956_20210513T025020_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_220210513T031609_20210513T033820_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_220210513T035252_20210513T041930_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_220210513T044223_20210513T044358_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_220210513T044414_20210513T045100_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210513T045227_20210513T051822_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_220210513T053234_20210513T060613_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_220210513T062617_20210513T062810_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_220210513T063311_20210513T063459_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_220210513T064045_20210513T064657_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_220210513T070017_20210513T070600_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210513T071209_20210513T074549_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_220210513T075855_20210513T075952_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_220210513T080615_20210513T080722_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_220210513T081833_20210513T083650_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_220210513T085114_20210513T092523_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_220210513T092603_20210513T092734_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210513T093712_20210513T093758_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_220210513T093838_20210513T093919_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_220210513T094932_20210513T095411_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_220210513T095510_20210513T101324_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_OPEL_SR_LINE_2_222(013111916_220103111326_DDD) Highli firm (Reinader 2), Bedeetote Face of the Second of the S	CS_OFFL_SIR_LRM_220210513T103109_20210513T110335_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Eq. (PFL_BIRL_FRM_2_2010031110900_20103111100000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_2010311110000_20103111000000_2010311100000_2010311100000_2010311100000_2010311100000_2010311100000_2010311100000_2010311100000_2010311100000_201031110000000000	CS_OFFL_SIR_LRM_220210513T111955_20210513T113832_D001		
Eq. (PRIL_IRM.)20218913T142004_20210913T120052_DOOI	CS_OFFL_SIR_LRM_220210513T113914_20210513T115228_D001		· · · · · · · · · · · · · · · · · · ·
CS_OFFL_SIR_LEM_2_22010013T120882_XXX10013T13082_DBD1 CS_OFFL_SIR_LEM_2_22010013T120882_XXX10013T13082_DBD1 CS_OFFL_SIR_LEM_2_22010013T130847_XXX10013T14082_DBD1 CS_OFFL_SIR_LEM_2_22010013T130847_XXX10013T14082_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XXX10013T14082_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XX10013T140845_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XX10013T140845_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XX10013T140845_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XX10013T140845_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XX10013T140845_DBD1 CS_OFFL_SIR_LEM_2_22010013T14076_XX10013T140844_DBD1 CS_OFFL_SIR_LEM_2_22010013T140948_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T140948_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T140948_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T140948_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T140948_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T140948_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX10013T16044_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX10013T16044_DBD1 CS_OFFL_SIR_LEM_2_22010013T16044_XX1	CS_OFFL_SIR_LRM_220210513T121005_20210513T122532_D001		
CS_OFFL_SRL_PM_2_20210013T19004_20210513T19004_20210013T19004_20210513T19004_2021	CS_OFFL_SIR_LRM_220210513T122734_20210513T123656_D001	, ,	
CS_OFFL_SIR_LENU_2_20210513T140342_20010513T140402_D001 Elegit Error (Retroster 2) Bestscatter from Fine is a height and backscatter error for Retroster 2 for one or more records Surface Model Unwarisite? Surface Surface Model Unwarisite? Surface (Retroster?) Additional Unwarisite? Surface Model Unwarisite? Sur	CS_OFFL_SIR_LRM_220210513T125908_20210513T130132_D001		
CS_OFFL_SIR_LRM_2_20210513T142750_20010513T142750_D001 Surface Model Unavailable No DEM or Stope Model was used for the location of one or more records. There is a height and backscatter error for Retracter 2 for one or more records. CS_OFFL_SIR_LRM_2_20210513T142255_20210513T145444_D001 CS_OFFL_SIR_LRM_2_20210513T146245_20210513T154444_D001 CS_OFFL_SIR_LRM_2_20210513T152068_20210513T15644_D001 CS_OFFL_SIR_LRM_2_20210513T152068_20210513T15644_D001 CS_OFFL_SIR_LRM_2_20210513T152068_20210513T156043_D001 CS_OFFL_SIR_LRM_2_20210513T160045_20210513T156043_D001 CS_OFFL_SIR_LRM_2_20210513T160045_20210513T160043_D001 CS_OFFL_SIR_LRM_2_20210513T160045_20210513T160043_D001 CS_OFFL_SIR_LRM_2_20210513T160045_20210513T160045_D001 CS_OFFL_SIR_LRM_2_20210513T160045_20210513T160045_D001 CS_OFFL_SIR_LRM_2_20210513T160045_20210513T170005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T170005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T19005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T19005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T19005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T19005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T19005_D001 CS_OFFL_SIR_LRM_2_20210513T180022_20210513T19005_D001 CS_OFFL_SIR_LRM_2_20210513T180042_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T180042_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T19005_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T19005_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T19005_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_20210513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T204502_2020513T205502_D001 CS_OFFL_SIR_LRM_2_20210513T2	CS_OFFL_SIR_LRM_220210513T130340_20210513T131616_D001	(Retracker 3), Backscatter Error	
CS. OFFL.SIR_LRML2_20210513T144045_20210513T154044_D001 Height Error (Retracker 2), Backscrafter Error (Ret	CS_OFFL_SIR_LRM_220210513T134947_20210513T140402_D001		-
Error (Retracker 2) Records From (Retracker 2) Records From (Retracker 2) Records From (Retracker 2) Reduced 20 Records From (Retracker 2) Reduced 20 Records Records 20 Reco	CS_OFFL_SIR_LRM_220210513T141716_20210513T142250_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Error (Retracker 2). Backscatter	CS_OFFL_SIR_LRM_220210513T144235_20210513T144945_D001		-
Enror (Retracker 2), Surface model unavailable unavail	CS_OFFL_SIR_LRM_220210513T145048_20210513T151444_D001		
Emri (Retracker 2) records Emri (Retracker 2) records Emri (Retracker 2) records Emri (Retracker 2) records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter from Fee and height error (Retracker 2), Backscatter from Fee and height error for Retracker 2 and a height error fee and height error (Retracker 2), Backscatter from Fee and height error for Retracker 2 and a height error fee and height error (Retracker 2), Backscatter error for Retracker 2 and a height error fee and	CS_OFFL_SIR_LRM_220210513T152928_20210513T155434_D001	Error (Retracker 2), Surface model	
CS_OFFL_SIR_LRM_2_20210513T19809_20210513T19308_D001 Referacker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retrack	CS_OFFL_SIR_LRM_220210513T160405_20210513T160433_D001		
CS_OFFL_SIR_LRM_2_20210513T10809_20210513T173506_0001 (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 2). Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220210513T162614_20210513T165332_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20210513T192355_20210513T192503_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records CS_OFFL_SIR_LRM_2_20210513T192355_20210513T192503_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error	CS_OFFL_SIR_LRM_220210513T170809_20210513T173506_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210513T190622_20210513T191308_0001 (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) for one or more records There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20210513T192535_20210513T201148_D001 CS_OFFL_SIR_LRM_2_20210513T202631_20210513T201148_D001 CS_OFFL_SIR_LRM_2_20210513T202631_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T202631_20210513T204501_D001 CS_OFFL_SIR_LRM_2_20210513T204821_20210513T205344_D001 CS_OFFL_SIR_LRM_2_20210513T205309_20210513T205344_D001 CS_OFFL_SIR_LRM_2_20210513T205009_20210513T205710_D001 CS_OFFL_SIR_LRM_2_20210513T205009_20210513T205710_D001 CS_OFFL_SIR_LRM_2_20210513T210307_20210513T20329_D001 Height Error (Retracker 2), Backscatter Error (CS_OFFL_SIR_LRM_220210513T180021_20210513T183228_D001		-
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220210513T190622_20210513T191308_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) Error (Re	CS_OFFL_SIR_LRM_220210513T192355_20210513T192503_D001		-
CS_OFFL_SIR_LRM_2_20210513T204821_20210513T205344_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Err	CS_OFFL_SIR_LRM_220210513T193819_20210513T201148_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20210513T205609_20210513T205710_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20210513T210307_20210513T210329_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20210513T210307_20210513T210329_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backsc	CS_OFFL_SIR_LRM_220210513T202631_20210513T204501_D001		
CS_OFFL_SIR_LRM_2_20210513T20509_20210513T210329_D001 Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records CS_OFFL_SIR_LRM_2_20210513T211712_20210513T215029_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retra	CS_OFFL_SIR_LRM_220210513T204821_20210513T205344_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20210513T210502_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20210513T220627_20210513T223206_D001 Height Error (Retracker 2), Backscatter	CS_OFFL_SIR_LRM_220210513T205609_20210513T205710_D001		
CS_OFFL_SIR_LRM_2_20210513T211712_20210513T215029_D001 (Retracker 3), Backscatter Error (Retracker 2) Indee is a height and backscatter error for Retracker 2 and a neight error for Retracker 2 and a neight error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20210513T220627_20210513T223206_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) Backscatter There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210513T210307_20210513T210329_D001		
Error (Retracker 2) records Height Error (Retracker 2) Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220210513T211712_20210513T215029_D001	(Retracker 3), Backscatter Error	
Height From (Retracker 2) Rackscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220210513T220627_20210513T223206_D001		
CS_OFFL_SIR_LRM_220210513T223256_20210513T224047_D001 Error (Retracker 2), Backscatter and backscatter error in Retracker 2 to one of more records	CS_OFFL_SIR_LRM_220210513T223256_20210513T224047_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_20210513T224047_20210513T224101_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210513T224047_20210513T224101_D001		
CS_OFFL_SIR_LRM_2_20210513T225651_20210513T225907_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210513T225651_20210513T225907_D001		

CS_OFFL_SIR_LRM_220210513T225942_20210513T230754_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_220210513T231234_20210513T231400_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_220210513T231437_20210513T232309_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_220210513T234827_20210514T000051_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	171	171	171	0	0
SIR_SAR_1B	111	111	111	0	0
SIR_SIN_1B	101	101	101	0	0
SIR_LRM_2	171	171	165	6	0
SIR_SAR_2	101	110	110	0	0
SIR_SIN_2	110	101	101	0	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	STRUCTURESIZ EANDREAD	-	-	•
SIR_GDR_2_	14	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)				
STRUCTURESIZEANDE	STRUCTURE_SIZE_AND_READ	Under investigation.				

6.2 QCC Warnings

Number of QCC reports with warnings

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Total number of occurrences of each warning

Product Type	AXSMMEOCI	AXSMEOOO	AXWMME000	-	-	-	-
SIR_LRM_2_	5	1	1				
0							

Test Description Key:						
Abbreviation	Test name	Details				
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:

0