

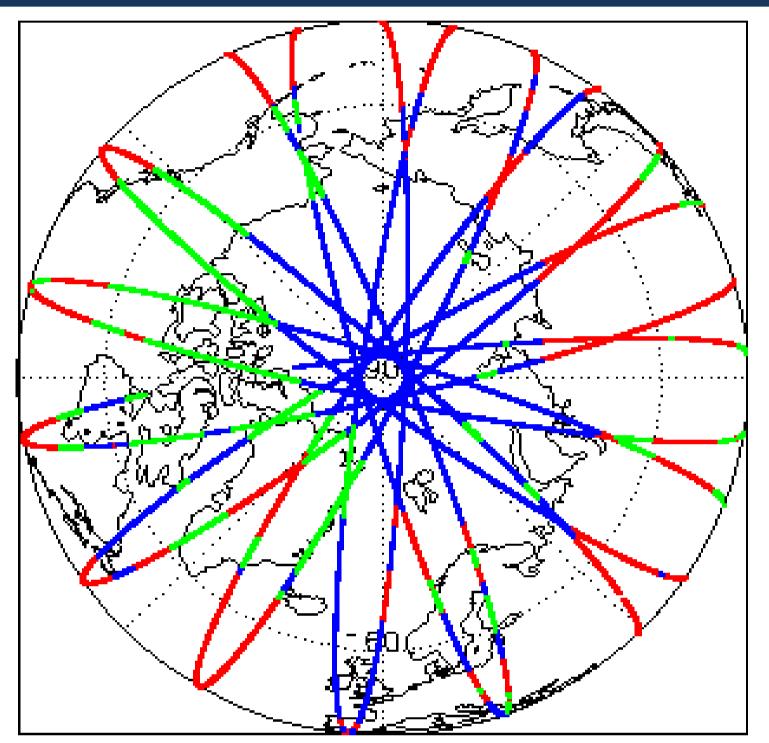


1. Overview

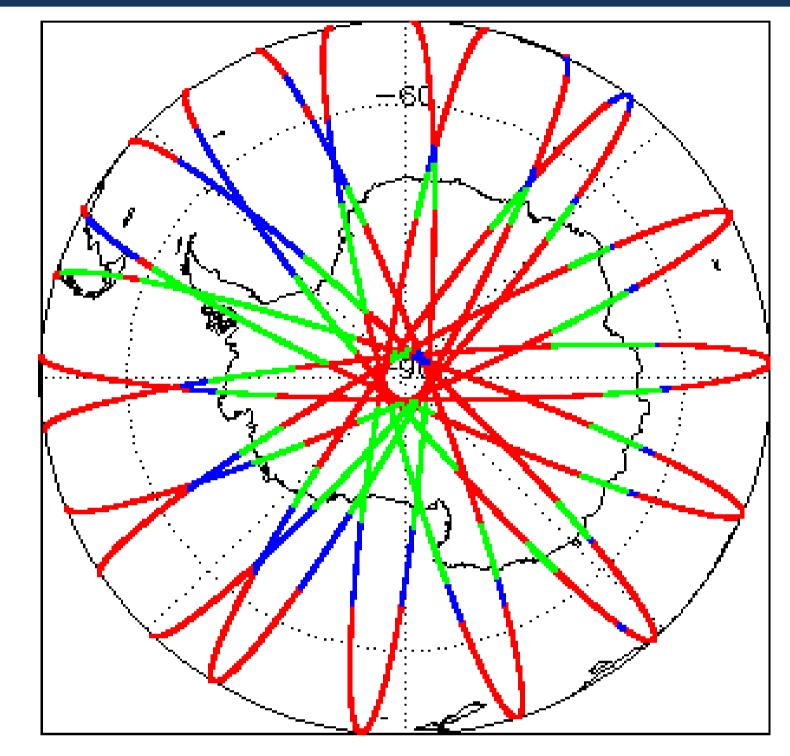
Report Production Date:	24-Feb-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

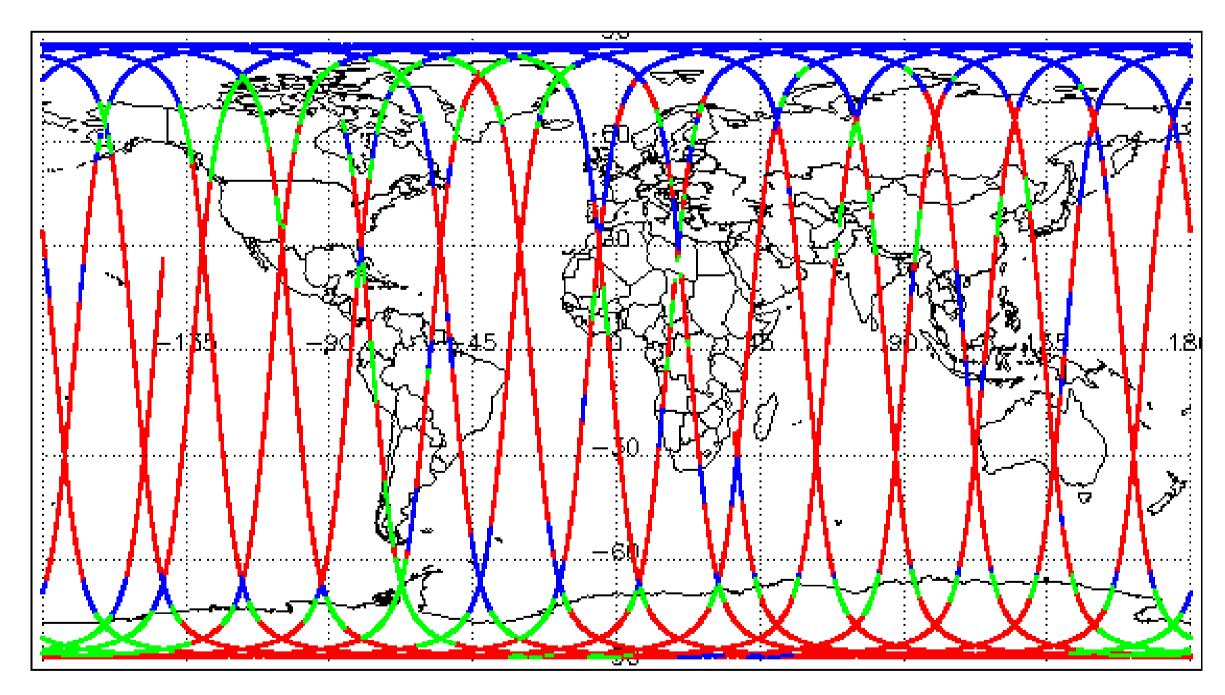
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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	
24-Jan-2021	None	
25-Jan-2021	None	
26-Jan-2021	Siral Unavailability due to Orbit Control Manoeuvre, on 26/01/2021 from 22:00:40 to 23:49:17 UTC.	



2. Global Coverage

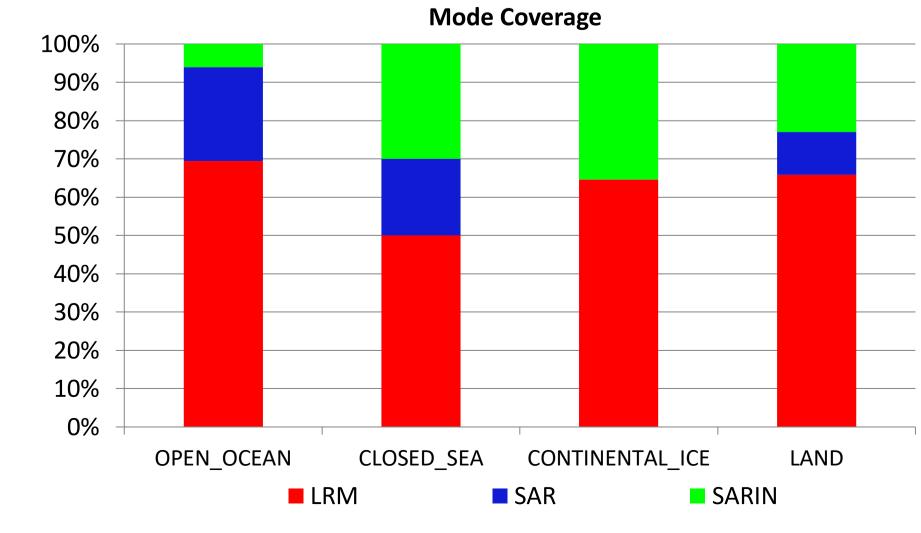


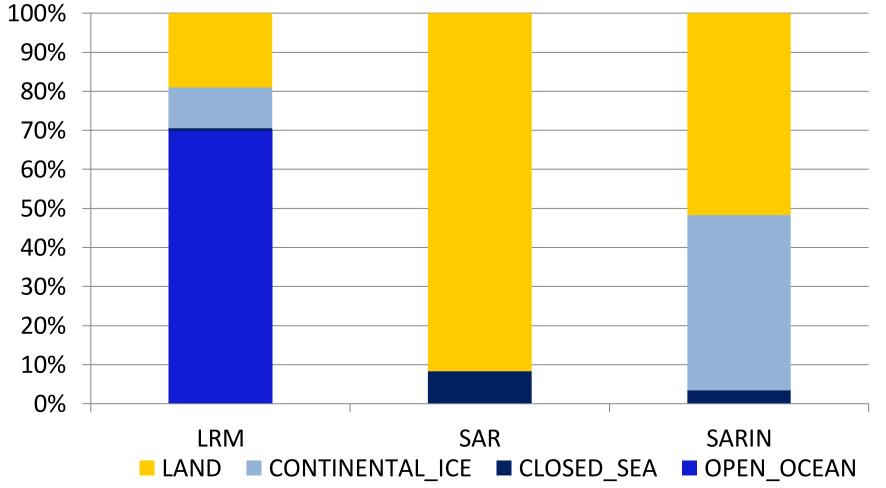




LRM	68.0
SAR	19.2
SARIn	12.8

Surface Type





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A	
	2	Level 1B Data Quality Check
4.1 L1B Product Format Chec	k	
Each product, retrieved and unpacked from t	he 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 Analy	/sis	
For all products, a series of pre-defined chec	ks are carried out on the MPH	and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0	
4.3 Star Tracker Usage Check		
Each product is checked in order to ensure a	a valid star tracker file has beer	n 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. 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, I	out this is to be expected.

Number of products with errors:

122

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210125T004719_20210125T005652_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T005715_20210125T005719_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210125T005723_20210125T010215_D001 CS_OFFL_SIR_LRM_1B_20210125T010824_20210125T010940_D001 CS_OFFL_SIR_LRM_1B_20210125T010952_20210125T011019_D001 CS_OFFL_SIR_LRM_1B_20210125T011019_20210125T011119_D001 CS_OFFL_SIR_LRM_1B_20210125T011404_20210125T011417_D001 CS_OFFL_SIR_LRM_1B_20210125T021730_20210125T023705_D001 CS_OFFL_SIR_LRM_1B_20210125T024032_20210125T024409_D001 CS_OFFL_SIR_LRM_1B_20210125T024412_20210125T024420_D001 CS_OFFL_SIR_LRM_1B_20210125T024424_20210125T024525_D001 CS_OFFL_SIR_LRM_1B_20210125T024602_20210125T024741_D001 CS_OFFL_SIR_LRM_1B_20210125T030649_20210125T030753_D001 CS_OFFL_SIR_LRM_1B_20210125T035032_20210125T035418_D001 CS_OFFL_SIR_LRM_1B_20210125T044522_20210125T044634_D001 CS_OFFL_SIR_LRM_1B_20210125T044637_20210125T044727_D001 CS_OFFL_SIR_LRM_1B_20210125T044730_20210125T044744_D001 CS_OFFL_SIR_LRM_1B_20210125T050435_20210125T050646_D001 CS_OFFL_SIR_LRM_1B_20210125T050744_20210125T052209_D001 CS_OFFL_SIR_LRM_1B_20210125T053930_20210125T055253_D001 CS_OFFL_SIR_LRM_1B_20210125T055507_20210125T055637_D001 CS_OFFL_SIR_LRM_1B_20210125T062414_20210125T062731_D001 CS_OFFL_SIR_LRM_1B_20210125T062734_20210125T062809_D001 CS_OFFL_SIR_LRM_1B_20210125T062815_20210125T062924_D001 CS_OFFL_SIR_LRM_1B_20210125T062928_20210125T062937_D001 CS_OFFL_SIR_LRM_1B_20210125T062939_20210125T062950_D001 CS_OFFL_SIR_LRM_1B_20210125T062953_20210125T062954_D001 CS_OFFL_SIR_LRM_1B_20210125T062957_20210125T063001_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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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_20210125T063433_20210125T064455_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T073302_20210125T07396_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T073403_20210125T073405_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T073403_20210125T073405_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T073407_20210125T07347_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T074130_20210125T074719_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080221_20210125T080701_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080704_20210125T080739_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080741_20210125T080845_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080849_20210125T080851_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080849_20210125T080051_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080849_20210125T080051_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T081011_20210125T081012_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1	CS_OFFL_SIR_LRM_1B_20210	125T063003_20210125T063136_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210125T080704_20210125T080739_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080741_20210125T080845_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080849_20210125T080851_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080854_20210125T080851_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080854_20210125T081005_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210	125T074130_20210125T074719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T080741_20210125T080845_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080849_20210125T080851_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210125T080854_20210125T081005_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210	125T080221_20210125T080701_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20210	125T080849_20210125T080851_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T081011_20210125T081012_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210	125T080854_20210125T081005_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210	125T081011_20210125T081012_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210125T081015_20210125T081020_D001
CS_OFFL_SIR_LRM_1B_20210125T081022_20210125T081153_D001
CS_OFFL_SIR_LRM_1B_20210125T081552_20210125T081649_D001
CS_OFFL_SIR_LRM_1B_20210125T084803_20210125T085037_D001
CS_OFFL_SIR_LRM_1B_20210125T085357_20210125T092151_D001
CS_OFFL_SIR_LRM_1B_20210125T092153_20210125T092227_D001
CS_OFFL_SIR_LRM_1B_20210125T092229_20210125T092240_D001
CS_OFFL_SIR_LRM_1B_20210125T092446_20210125T092842_D001
CS_OFFL_SIR_LRM_1B_20210125T094549_20210125T095031_D001
CS_OFFL_SIR_LRM_1B_20210125T095207_20210125T095210_D001
CS_OFFL_SIR_LRM_1B_20210125T095440_20210125T101959_D001
CS_OFFL_SIR_LRM_1B_20210125T102703_20210125T103028_D001
CS_OFFL_SIR_LRM_1B_20210125T112349_20210125T112714_D001
CS_OFFL_SIR_LRM_1B_20210125T112747_20210125T112944_D001
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CS_OFFL_SIR_LRM_1B_20210125T112950_20210125T112951_D001
CS_OFFL_SIR_LRM_1B_20210125T112954_20210125T113029_D001
CS_OFFL_SIR_LRM_1B_20210125T113031_20210125T113052_D001
CS_OFFL_SIR_LRM_1B_20210125T113054_20210125T113123_D001
CS_OFFL_SIR_LRM_1B_20210125T113126_20210125T115005_D001
CS_OFFL_SIR_LRM_1B_20210125T120137_20210125T120935_D001
CS_OFFL_SIR_LRM_1B_20210125T130145_20210125T130225_D001
CS_OFFL_SIR_LRM_1B_20210125T130537_20210125T130828_D001
CS_OFFL_SIR_LRM_1B_20210125T130838_20210125T130938_D001
CS_OFFL_SIR_LRM_1B_20210125T131511_20210125T131653_D001

Loss of echo

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The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210125T131837_20210125T131936_D001 CS_OFFL_SIR_LRM_1B_20210125T131939_20210125T131940_D001 CS_OFFL_SIR_LRM_1B_20210125T131944_20210125T131945_D001 CS_OFFL_SIR_LRM_1B_20210125T131947_20210125T131948_D001 CS_OFFL_SIR_LRM_1B_20210125T131950_20210125T132122_D001 CS_OFFL_SIR_LRM_1B_20210125T132205_20210125T132515_D001 CS_OFFL_SIR_LRM_1B_20210125T142813_20210125T142904_D001 CS_OFFL_SIR_LRM_1B_20210125T144815_20210125T144957_D001 CS_OFFL_SIR_LRM_1B_20210125T145026_20210125T145527_D001 CS_OFFL_SIR_LRM_1B_20210125T145728_20210125T150332_D001 CS_OFFL_SIR_LRM_1B_20210125T152249_20210125T152527_D001 CS_OFFL_SIR_LRM_1B_20210125T153203_20210125T160208_D001 CS_OFFL_SIR_LRM_1B_20210125T160648_20210125T160657_D001 CS_OFFL_SIR_LRM_1B_20210125T160700_20210125T160717_D001 CS_OFFL_SIR_LRM_1B_20210125T160720_20210125T160721_D001 CS_OFFL_SIR_LRM_1B_20210125T160725_20210125T160844_D001 CS_OFFL_SIR_LRM_1B_20210125T160846_20210125T160901_D001 CS_OFFL_SIR_LRM_1B_20210125T171545_20210125T174003_D001 CS_OFFL_SIR_LRM_1B_20210125T174231_20210125T174416_D001 CS_OFFL_SIR_LRM_1B_20210125T174418_20210125T174425_D001 CS_OFFL_SIR_LRM_1B_20210125T174428_20210125T174435_D001 CS_OFFL_SIR_LRM_1B_20210125T174440_20210125T174848_D001 CS_OFFL_SIR_LRM_1B_20210125T180509_20210125T181743_D001 CS_OFFL_SIR_LRM_1B_20210125T182029_20210125T182333_D001 CS_OFFL_SIR_LRM_1B_20210125T182335_20210125T182342_D001 CS_OFFL_SIR_LRM_1B_20210125T182344_20210125T182927_D001

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

CS_OFFL_SIR_LRM_1B_20210125T184115_20210125T184355_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T190708_20210125T190952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T191419_20210125T191806_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T191809_20210125T192001_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192003_20210125T192109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192111_20210125T192123_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192125_20210125T192136_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192139_20210125T192144_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192146_20210125T192150_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192152_20210125T192153_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192155_20210125T192206_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192209_20210125T192222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T192228_20210125T192302_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210125T192304_20210125T192844_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T194400_20210125T194950_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T195233_20210125T195511_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T195514_20210125T201635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T201907_20210125T202752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T203011_20210125T205502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T205953_20210125T210402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T211855_20210125T211947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T212109_20210125T212700_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T212711_20210125T215504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T220847_20210125T223427_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T223429_20210125T223517_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T223519_20210125T223633_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T223635_20210125T223653_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T223656_20210125T223905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T223917_20210125T224214_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210125T224214_20210125T224435_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.

0

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:

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. Level 2 Data Quality Check
5.1 L2 Product Format Check
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). Number of products with errors: 0
5.2 L2 Product Header Analysis
For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0
5.3 L2 Auxiliary Data File Usage Check
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 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.

0

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:

Test Failed Product Description Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS_OFFL_SIR_LRM_2__20210124T235119_20210125T002447_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_2__20210125T010358_20210125T010450_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_2__20210125T011504_20210125T011511_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_2__20210125T013054_20210125T013914_D001 Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or more Height Error (Retracker 2), Backscatter CS_OFFL_SIR_LRM_2__20210125T014159_20210125T020420_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_2__20210125T021730_20210125T023705_D001 Error (Retracker 2) records

CS_OFFL_SIR_LRM_220210125T024424_20210125T024525_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_220210125T024602_20210125T024741_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_220210125T030918_20210125T034249_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_220210125T035817_20210125T035914_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_220210125T040114_20210125T043246_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_220210125T045247_20210125T045954_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_220210125T050435_20210125T050646_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_220210125T050744_20210125T052209_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_220210125T053930_20210125T055253_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_220210125T055507_20210125T055637_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_220210125T055701_20210125T060709_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_220210125T063003_20210125T063136_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T063433_20210125T064455_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_220210125T064635_20210125T070100_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_220210125T072302_20210125T072926_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_220210125T073407_20210125T073847_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_220210125T074130_20210125T074719_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_220210125T081822_20210125T084030_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_220210125T085357_20210125T092151_D001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220210125T095207_20210125T095210_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T095440_20210125T101959_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_220210125T103358_20210125T110648_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_220210125T113126_20210125T115005_D001		There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220210125T115327_20210125T115927_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_220210125T121322_20210125T124642_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_220210125T130021_20210125T130112_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_220210125T135208_20210125T141439_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_220210125T141725_20210125T142703_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_220210125T144815_20210125T144957_D001	I Retracker 3) Backscatter Effor	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_220210125T145728_20210125T150332_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_220210125T150520_20210125T151644_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_220210125T153203_20210125T160208_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_220210125T162123_20210125T165303_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_220210125T171102_20210125T171512_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_220210125T171545_20210125T174003_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_220210125T174231_20210125T174416_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T180509_20210125T181743_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_220210125T185045_20210125T190529_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_220210125T190708_20210125T190952_D001	I Retracker 3) Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220210125T191809_20210125T192001_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T192139_20210125T192144_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T192304_20210125T192844_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T194400_20210125T194950_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_220210125T195233_20210125T195511_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_220210125T195514_20210125T201635_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_220210125T203011_20210125T205502_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_220210125T210525_20210125T210613_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_220210125T212711_20210125T215504_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_220210125T220847_20210125T223427_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_220210125T223656_20210125T223905_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210125T230238_20210125T233408_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	187	187	187	0	0
SIR_SAR_1B	113	113	113	0	0
SIR_SIN_1B	103	103	103	0	0
SIR_LRM_2	187	187	183	4	0
SIR_SAR_2	103	113	113	0	0
SIR_SIN_2	113	103	101	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

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Number of products with QCC errors:

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

Test Description Key:	st 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

6

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_LRM_2_	0	4					
SIR_SIN_2_	2	0					

Test Description Key:	est Description Key:								
Abbreviation	Test name	Details							
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice							
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice							

6.2 Missing QCC Reports

Number of products with missing QCC reports:

0