



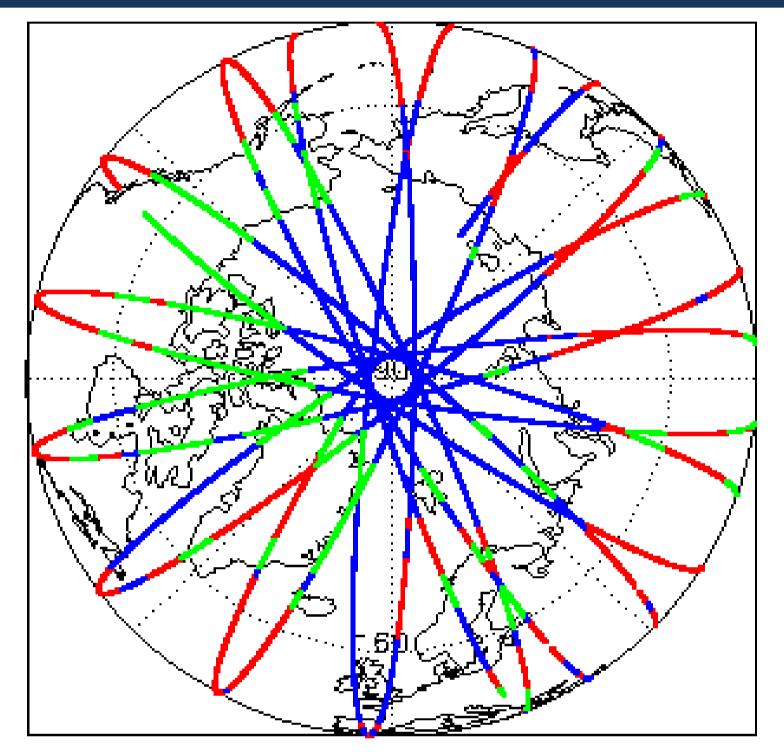
1. Overview

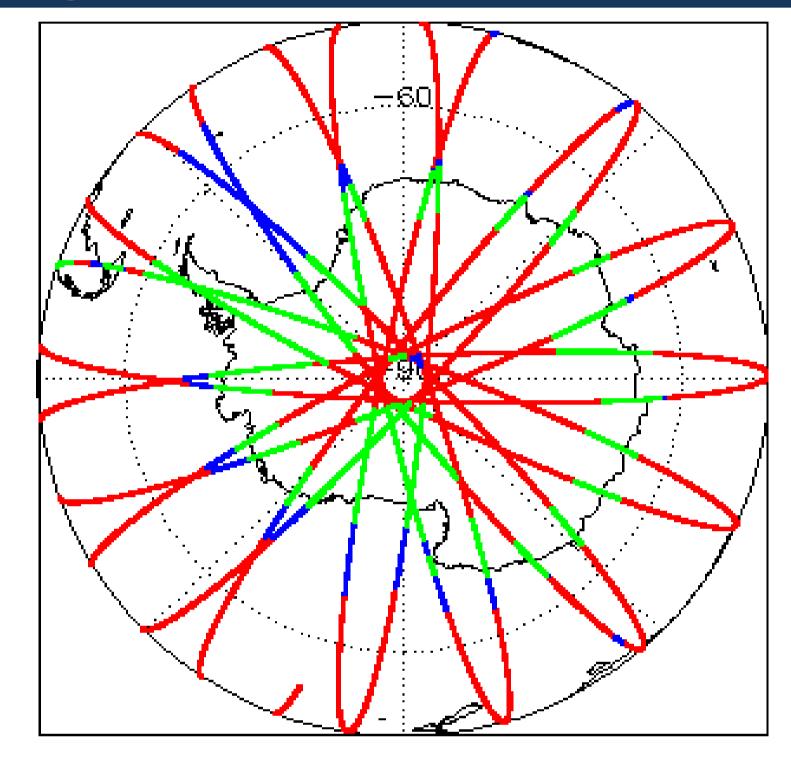
Report Production Date:	17-Mar-2021	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

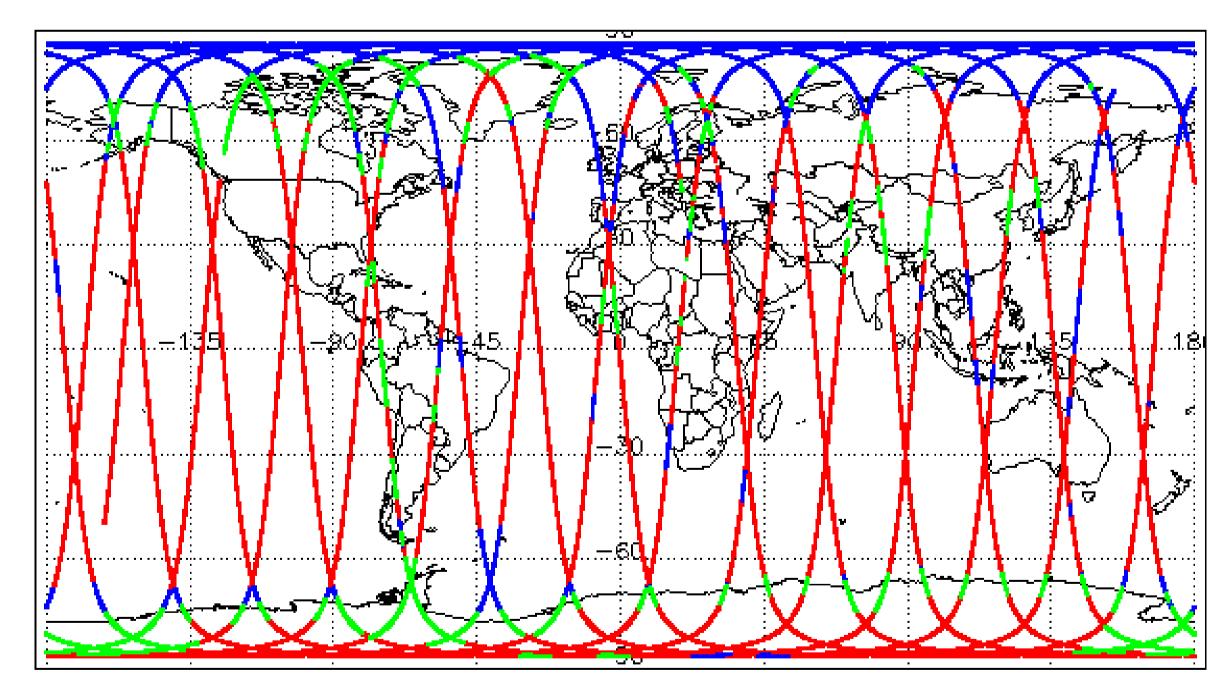
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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		
14-Feb-2021	None		
15-Feb-2021	None		
16-Feb-2021	SIRAL unavailability from 12:38:00 until 12:52:02		

2. Global Coverage



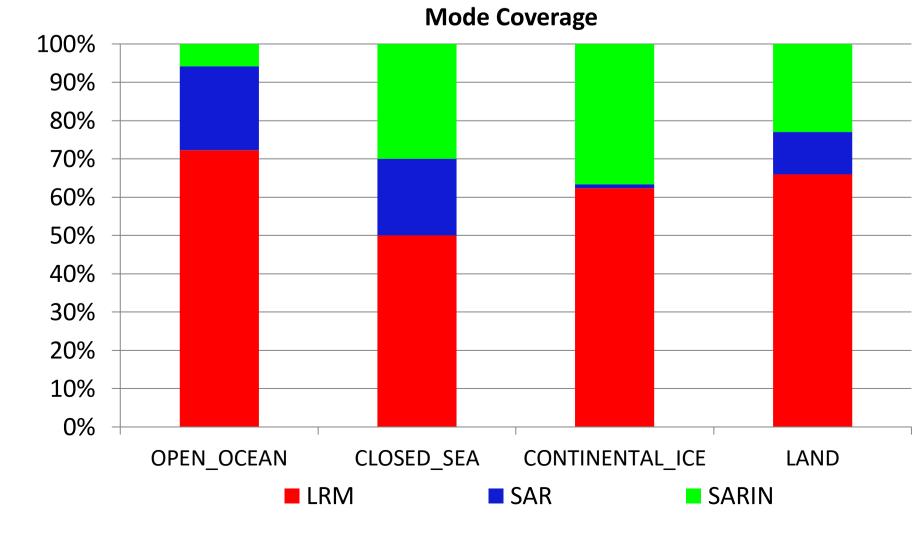


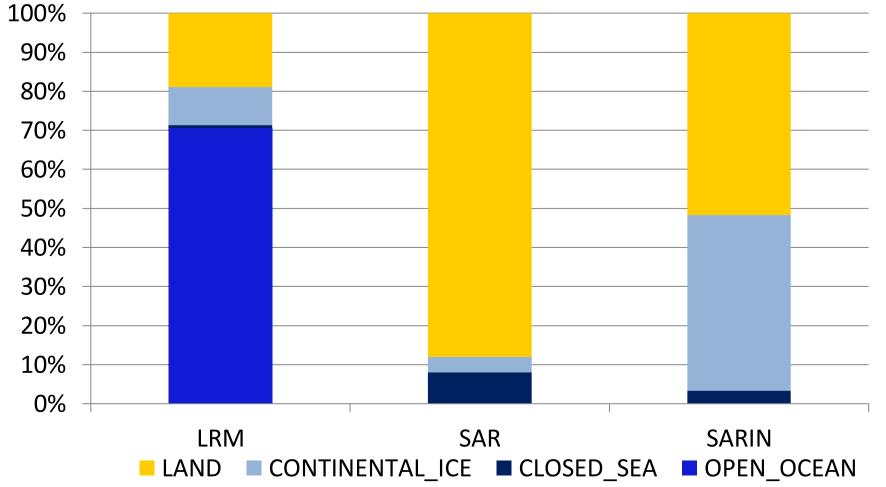




LRM	69.8
SAR	17.3
SARIn	12.9

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	I. Level 1B Data Quality Check
4.1 L1B Product Format Checl	k	
Each product, retrieved and unpacked from tl	he science server, is checked to	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 ϵ	and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0	
4.3 Star Tracker Usage Check		
Each product is checked in order to ensure a valid star tracker file has been used in processing.		
Number of products with errors:	0	
4.4 L1B Tracking Flags Check		
CryoSat L1B data includes a tracking flag for	each measurement record. The	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, bu	but this is to be expected.
Number of products with errors:	114	

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210215T000008_20210215T000041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T000443_20210215T000451_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210215T013057_20210215T013510_D001 CS_OFFL_SIR_LRM_1B_20210215T013512_20210215T013515_D001 CS_OFFL_SIR_LRM_1B_20210215T013519_20210215T013548_D001 CS_OFFL_SIR_LRM_1B_20210215T013618_20210215T013801_D001 CS_OFFL_SIR_LRM_1B_20210215T015710_20210215T015749_D001 CS_OFFL_SIR_LRM_1B_20210215T021948_20210215T023313_D001 CS_OFFL_SIR_LRM_1B_20210215T024054_20210215T024449_D001 CS_OFFL_SIR_LRM_1B_20210215T033543_20210215T033709_D001 CS_OFFL_SIR_LRM_1B_20210215T033711_20210215T033720_D001 CS_OFFL_SIR_LRM_1B_20210215T033722_20210215T033737_D001 CS_OFFL_SIR_LRM_1B_20210215T033740_20210215T033754_D001 CS_OFFL_SIR_LRM_1B_20210215T035455_20210215T035606_D001 CS_OFFL_SIR_LRM_1B_20210215T035608_20210215T035842_D001 CS_OFFL_SIR_LRM_1B_20210215T035952_20210215T041238_D001 CS_OFFL_SIR_LRM_1B_20210215T043009_20210215T044315_D001 CS_OFFL_SIR_LRM_1B_20210215T051445_20210215T051451_D001 CS_OFFL_SIR_LRM_1B_20210215T051455_20210215T051519_D001 CS_OFFL_SIR_LRM_1B_20210215T051522_20210215T051524_D001 CS_OFFL_SIR_LRM_1B_20210215T051526_20210215T051545_D001 CS_OFFL_SIR_LRM_1B_20210215T051548_20210215T051927_D001 CS_OFFL_SIR_LRM_1B_20210215T051930_20210215T051956_D001 CS_OFFL_SIR_LRM_1B_20210215T051958_20210215T052007_D001 CS_OFFL_SIR_LRM_1B_20210215T052009_20210215T052011_D001 CS_OFFL_SIR_LRM_1B_20210215T052013_20210215T052133_D001 CS_OFFL_SIR_LRM_1B_20210215T052450_20210215T053515_D001 CS_OFFL_SIR_LRM_1B_20210215T053655_20210215T055155_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_20210215T061153_20210215T061204_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T061207_20210215T061204_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T061207_20210215T061927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062430_20210215T062450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062453_20210215T062500_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062453_20210215T062500_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062540_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062560_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065830_20210215T065949_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM	CS_OFFL_SIR_LRM_1B_20210215T061011_20210215T061148_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T061207_20210215T061212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T061501_20210215T062450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T062453_20210215T062500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T063031_20210215T065256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001 Loss of echo	CS_OFFL_SIR_LRM_1B_20210215T061153_20210215T061158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T061501_20210215T061927_D001 CS_OFFL_SIR_LRM_1B_20210215T062430_20210215T062450_D001 CS_OFFL_SIR_LRM_1B_20210215T062453_20210215T062500_D001 CS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001 CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062546_D001 CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001 CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001 CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001 CS_OFFL_SIR_LRM_1B_20210215T063031_20210215T065256_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065526_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065527_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065527_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065527_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065527_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065527_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065527_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065587_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065587_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065587_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065587_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065587_D001 CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065587_D001 CS_OFFL_SIR_LRM_1B_20210215T065305_2001 CS_OFFL_SI	CS_OFFL_SIR_LRM_1B_20210215T061201_20210215T061204_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T062430_20210215T062450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062504_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065257_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM	CS_OFFL_SIR_LRM_1B_20210215T061207_20210215T061212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T062453_20210215T062500_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T061501_20210215T061927_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065235_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T062430_20210215T062450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T062453_20210215T062500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T062502_20210215T062546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T062549_20210215T062908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T063031_20210215T063741_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210215T065237_20210215T065256_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T065830_20210215T065949_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210215T065335_20210215T065827_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210215T065830_20210215T065949_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210215T065951_20210215T070021_D001 CS_OFFL_SIR_LRM_1B_20210215T070024_20210215T070057_D001 CS_OFFL_SIR_LRM_1B_20210215T070059_20210215T070212_D001 CS_OFFL_SIR_LRM_1B_20210215T070557_20210215T070605_D001 CS_OFFL_SIR_LRM_1B_20210215T070607_20210215T070821_D001 CS_OFFL_SIR_LRM_1B_20210215T073401_20210215T073805_D001 CS_OFFL_SIR_LRM_1B_20210215T073826_20210215T074030_D001 CS_OFFL_SIR_LRM_1B_20210215T074412_20210215T081903_D001 CS_OFFL_SIR_LRM_1B_20210215T082025_20210215T082112_D001 CS_OFFL_SIR_LRM_1B_20210215T083609_20210215T084046_D001 CS_OFFL_SIR_LRM_1B_20210215T091726_20210215T092051_D001 CS_OFFL_SIR_LRM_1B_20210215T101402_20210215T101736_D001 CS_OFFL_SIR_LRM_1B_20210215T101958_20210215T102027_D001 CS_OFFL_SIR_LRM_1B_20210215T102030_20210215T102105_D001 CS_OFFL_SIR_LRM_1B_20210215T102107_20210215T102138_D001 CS_OFFL_SIR_LRM_1B_20210215T102141_20210215T104119_D001 CS_OFFL_SIR_LRM_1B_20210215T105155_20210215T105959_D001 CS_OFFL_SIR_LRM_1B_20210215T115527_20210215T115814_D001 CS_OFFL_SIR_LRM_1B_20210215T115817_20210215T115853_D001 CS_OFFL_SIR_LRM_1B_20210215T115910_20210215T115927_D001 CS_OFFL_SIR_LRM_1B_20210215T115929_20210215T115932_D001 CS_OFFL_SIR_LRM_1B_20210215T115936_20210215T115953_D001 CS_OFFL_SIR_LRM_1B_20210215T120532_20210215T120831_D001 CS_OFFL_SIR_LRM_1B_20210215T120857_20210215T121049_D001 CS_OFFL_SIR_LRM_1B_20210215T121206_20210215T121704_D001 DNA 10 20210215T121052 20210215T121021 D001

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

CS_OFFL_SIR_LRM_1B_20210215T131853_20210215T131924_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T133835_20210215T134002_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T134004_20210215T134014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T134047_20210215T134542_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T134804_20210215T135353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T142155_20210215T144908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T145715_20210215T145723_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T145728_20210215T145746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T145748_20210215T145757_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T145759_20210215T145921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T160702_20210215T161814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T161816_20210215T162853_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T163247_20210215T163431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T163433_20210215T163439_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T163441_20210215T163443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T163447_20210215T163510_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T163514_20210215T163731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T163733_20210215T163908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T165616_20210215T170802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T171033_20210215T171316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T173143_20210215T173415_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T175731_20210215T180102_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T180440_20210215T181206_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T181209_20210215T181215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T181217_20210215T181238_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T181311_20210215T181324_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T181327_20210215T181909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T183420_20210215T184130_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T184253_20210215T190704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T192027_20210215T194431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T194438_20210215T194459_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T194801_20210215T194856_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T195032_20210215T195413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T200912_20210215T201008_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T201130_20210215T204616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T205900_20210215T212453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T212455_20210215T212632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T212634_20210215T212647_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T212649_20210215T212711_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210215T212713_20210215T212732_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T212734_20210215T213249_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T213249_20210215T213501_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T223814_20210215T225919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T225921_20210215T230448_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T230629_20210215T230720_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T230722_20210215T230736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T231110_20210215T231232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210215T231450_20210215T231526_D001	Loss of echo	The tracking echo is missing for one or more records
4.5 L1B Calibration Usage Check		

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

0

0

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

0

4.8 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.
Number of products with errors:

5. 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. Number of products with errors: 0		
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:

60

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210215T002114_20210215T005519_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_220210215T010724_20210215T012731_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_220210215T013519_20210215T013548_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_220210215T013618_20210215T013801_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_220210215T015710_20210215T015749_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_220210215T015918_20210215T021943_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_220210215T021948_20210215T023313_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_220210215T024644_20210215T032312_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_220210215T034252_20210215T035013_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_220210215T035455_20210215T035606_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_220210215T035608_20210215T035842_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_220210215T035952_20210215T041238_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_220210215T043009_20210215T044315_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_220210215T044529_20210215T045720_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_220210215T052450_20210215T053515_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_220210215T053655_20210215T055155_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_220210215T061011_20210215T061148_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210215T061501_20210215T061927_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_220210215T062549_20210215T062908_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_220210215T063031_20210215T063741_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_220210215T065830_20210215T065949_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210215T070607_20210215T070821_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_220210215T070917_20210215T073102_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_220210215T074412_20210215T081903_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_220210215T083344_20210215T083446_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_220210215T084617_20210215T091038_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_220210215T092323_20210215T095646_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_220210215T102141_20210215T104119_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_220210215T104344_20210215T105018_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_220210215T110228_20210215T113717_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_220210215T115046_20210215T115136_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_220210215T120215_20210215T120348_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210215T122022_20210215T122957_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_220210215T124213_20210215T130502_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_220210215T130747_20210215T131717_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_220210215T134004_20210215T134014_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_220210215T134804_20210215T135353_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_220210215T135540_20210215T140904_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_220210215T142155_20210215T144908_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_220210215T145047_20210215T145414_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_220210215T151114_20210215T151118_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_220210215T151906_20210215T154326_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_220210215T160702_20210215T161814_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_220210215T161816_20210215T162853_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_220210215T165616_20210215T170802_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_220210215T171422_20210215T172525_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_220210215T174045_20210215T175551_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_220210215T175731_20210215T180102_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_220210215T183130_20210215T183257_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210215T183420_20210215T184130_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_220210215T184253_20210215T190704_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_220210215T192027_20210215T194431_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_220210215T201130_20210215T204616_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_220210215T205900_20210215T212453_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_220210215T212734_20210215T213249_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210215T215315_20210215T222538_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_220210215T223814_20210215T225919_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_220210215T225921_20210215T230448_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_220210215T230722_20210215T230736_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_220210215T232929_20210216T000432_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

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	179	179	179	0	0
SIR_SAR_1B	114	114	114	0	0
SIR_SIN_1B	100	100	100	0	0
SIR_LRM_2	179	179	174	5	0
SIR_SAR_2	100	113	113	0	0
SIR_SIN_2	113	100	100	0	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

Pro	oduct Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
SIF	R_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

1

6.2 QCC Warnings

Number of QCC reports with warnings

 Total number of occurrences of each warning							
Product Type	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	-	-	-	-
SIR_LRM_2_	4	1	1				

Test Description Key:	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:

Product name

CS_OFFL_SIR_GDR_2__20210215T225614_20210216T003528_D002