



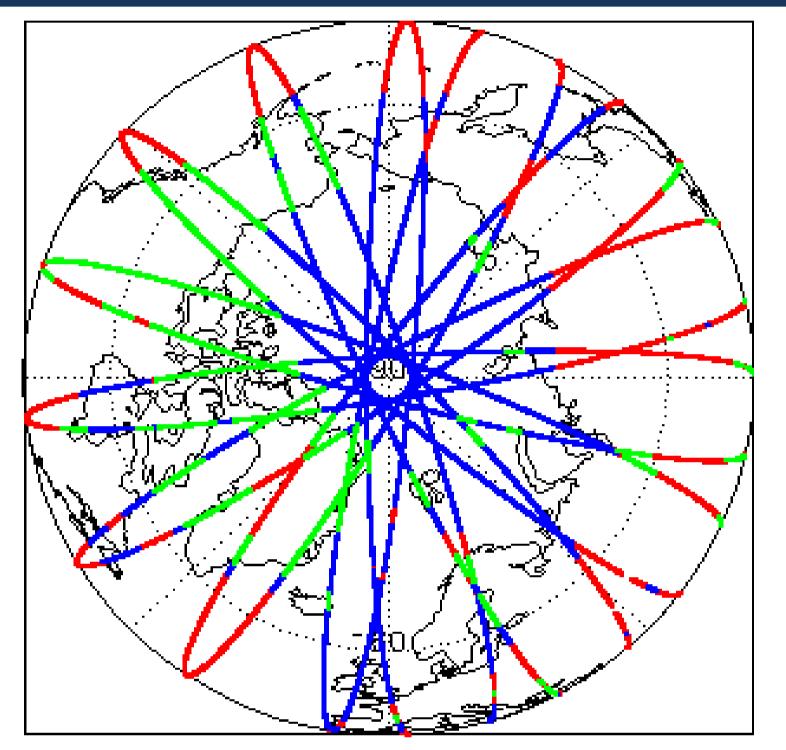
1. Overview

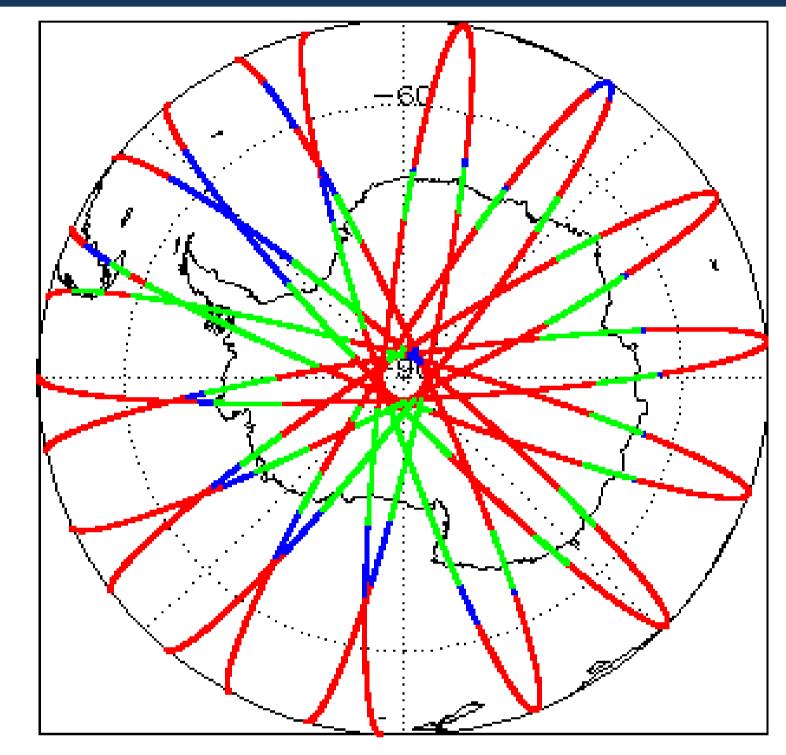
Report Production Date:	21-Apr-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

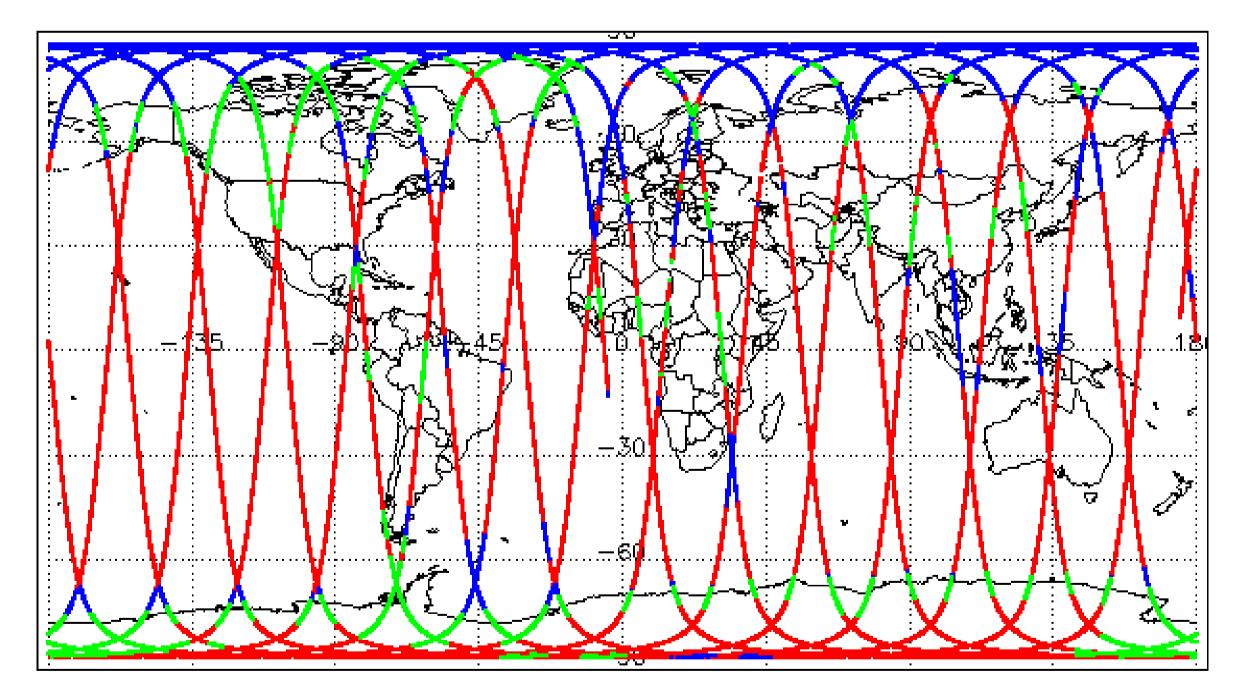
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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	ument News
21-Mar-2021	None
22-Mar-2021	None
23-Mar-2021	Due to Orbit Control Manoeuvre, SIRAL unavailability on 23/02/2021 from 19:27:58 UTC to 20:24:54 UTC

2. Global Coverage



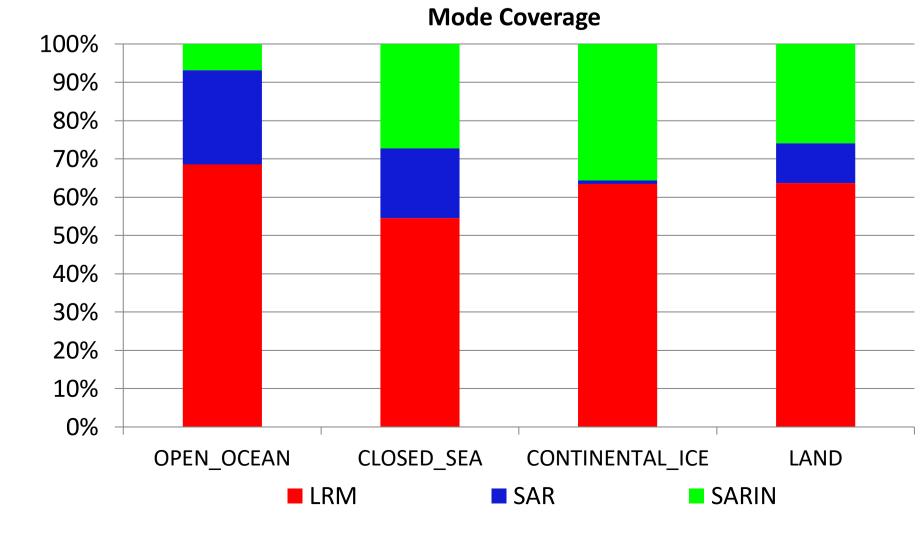


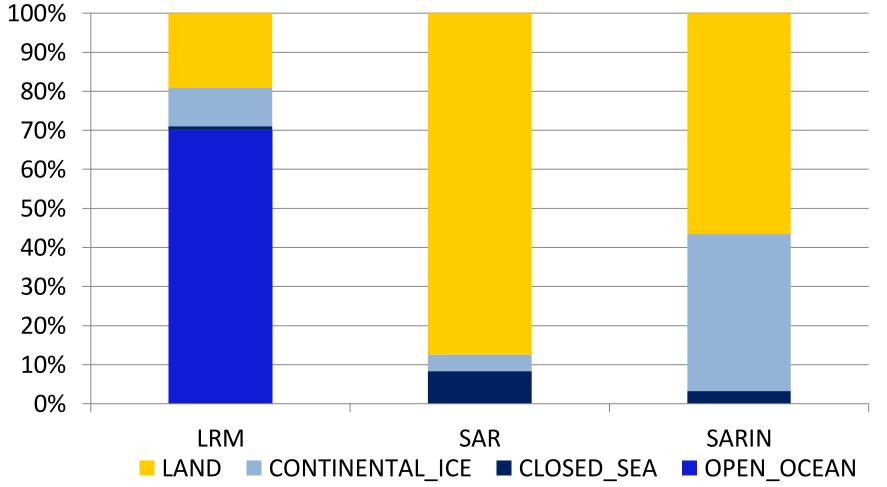




LRM	66.9
SAR	19.2
SARIn	13.9

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	Level 1B Data Quality Check
4.1 L1B Product Format Chee	sk	
Each product, retrieved and unpacked from	the science server, is checked	o 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 Anal	ysis	
For all products, a series of pre-defined che	cks 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 Checl	K	
Each product is checked in order to ensure	a valid star tracker file has beer	used in processing.
Number of products with errors:	0	
4.4 L1B Tracking Flags Chec	k	
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 se	et for some products over land, k	out this is to be expected.

Number of products with errors:

127

Test Failed Description Product CS_OFFL_SIR_LRM_1B_20210322T000745_20210322T001143_D001 The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T001145_20210322T001213_D001 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_20210322T003410_20210322T003416_D001 CS_OFFL_SIR_LRM_1B_20210322T003421_20210322T003530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T003537_20210322T003543_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T003645_20210322T011024_D001 The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T021242_20210322T021334_D001 The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T021337_20210322T021401_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T021404_20210322T021423_D001 The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T021427_20210322T021449_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_20210322T021451_20210322T021510_D001 Loss of echo Loss of echo CS_OFFL_SIR_LRM_1B_20210322T021937_20210322T022717_D001 The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T023158_20210322T023238_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T023242_20210322T023243_D001 The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T023245_20210322T023246_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T023248_20210322T024945_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T030626_20210322T032016_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T033546_20210322T033654_D001 The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T035125_20210322T035433_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T035437_20210322T035539_D001 The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T035542_20210322T035545_D001 The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T035549_20210322T035608_D001 The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T035610_20210322T035951_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T040201_20210322T041219_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T044759_20210322T045834_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS_OFFL_SIR_LRM_1B_20210322T050035_20210322T050608_D001 The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210322T050851_20210322T051547_D001 The tracking echo is missing for one or more records Loss of echo Loss of echo CS_OFFL_SIR_LRM_1B_20210322T051845_20210322T051900_D001 The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210322T053336_20210322T053445_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053410_20210322T053445_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053448_20210322T053617_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053619_20210322T053637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053639_20210322T053711_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053713_20210322T053720_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T05302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T065301_20210322T065302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_	CS_OFFL_SIR_LRM_1B_20210322T052950_20210322T053334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053448_20210322T053617_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053619_20210322T053637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053639_20210322T053711_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053713_20210322T053720_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T05202_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T05202_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T06500	CS_OFFL_SIR_LRM_1B_20210322T053336_20210322T053408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053619_20210322T053637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053639_20210322T053711_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053713_20210322T053720_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T05202105_20210322T05302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T052020105_20210322T055002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T052105_20210322T055002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053410_20210322T053445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053639_20210322T053711_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053713_20210322T053720_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053448_20210322T053617_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053713_20210322T053720_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053619_20210322T053637_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053639_20210322T053711_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053713_20210322T053720_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053723_20210322T053726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053729_20210322T053753_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T053756_20210322T053808_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210322T053841_20210322T053925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T065301_20210322T065324_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210322T062105_20210322T065002_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210322T065301_20210322T065324_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210322T071311_20210322T071902_D001 CS_OFFL_SIR_LRM_1B_20210322T071910_20210322T071943_D001 CS_OFFL_SIR_LRM_1B_20210322T072129_20210322T074730_D001 CS_OFFL_SIR_LRM_1B_20210322T075426_20210322T075753_D001 CS_OFFL_SIR_LRM_1B_20210322T085131_20210322T085432_D001 CS_OFFL_SIR_LRM_1B_20210322T085505_20210322T085644_D001 CS_OFFL_SIR_LRM_1B_20210322T085646_20210322T085646_D001 CS_OFFL_SIR_LRM_1B_20210322T085653_20210322T085653_D001 CS_OFFL_SIR_LRM_1B_20210322T085655_20210322T085658_D001 CS_OFFL_SIR_LRM_1B_20210322T085702_20210322T085711_D001 CS_OFFL_SIR_LRM_1B_20210322T085722_20210322T085739_D001 CS_OFFL_SIR_LRM_1B_20210322T085742_20210322T090432_D001 CS_OFFL_SIR_LRM_1B_20210322T090434_20210322T090646_D001 CS_OFFL_SIR_LRM_1B_20210322T090648_20210322T090932_D001 CS_OFFL_SIR_LRM_1B_20210322T090935_20210322T091032_D001 CS_OFFL_SIR_LRM_1B_20210322T091035_20210322T091538_D001 CS_OFFL_SIR_LRM_1B_20210322T092908_20210322T093454_D001 CS_OFFL_SIR_LRM_1B_20210322T102925_20210322T102948_D001 CS_OFFL_SIR_LRM_1B_20210322T103332_20210322T103456_D001 CS_OFFL_SIR_LRM_1B_20210322T103507_20210322T103619_D001 CS_OFFL_SIR_LRM_1B_20210322T103941_20210322T104048_D001 CS_OFFL_SIR_LRM_1B_20210322T104600_20210322T104948_D001 CS_OFFL_SIR_LRM_1B_20210322T115507_20210322T115554_D001 CS_OFFL_SIR_LRM_1B_20210322T115556_20210322T115623_D001 CS_OFFL_SIR_LRM_1B_20210322T121534_20210322T121708_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_20210322T121822_20210322T121846_D001	
CS_OFFL_SIR_LRM_1B_20210322T121848_20210322T121858_D001	
CS_OFFL_SIR_LRM_1B_20210322T121900_20210322T122303_D001	
CS_OFFL_SIR_LRM_1B_20210322T122352_20210322T124610_D001	
CS_OFFL_SIR_LRM_1B_20210322T133357_20210322T133409_D001	
CS_OFFL_SIR_LRM_1B_20210322T133413_20210322T133505_D001	
CS_OFFL_SIR_LRM_1B_20210322T133507_20210322T133621_D001	
CS_OFFL_SIR_LRM_1B_20210322T140804_20210322T142104_D001	
CS_OFFL_SIR_LRM_1B_20210322T143003_20210322T143159_D001	
CS_OFFL_SIR_LRM_1B_20210322T143337_20210322T143702_D001	
CS_OFFL_SIR_LRM_1B_20210322T143834_20210322T145422_D001	
CS_OFFL_SIR_LRM_1B_20210322T150922_20210322T151148_D001	
CS_OFFL_SIR_LRM_1B_20210322T151150_20210322T151221_D001	
CS_OFFL_SIR_LRM_1B_20210322T151225_20210322T151607_D001	
CS_OFFL_SIR_LRM_1B_20210322T153304_20210322T154505_D001	
CS_OFFL_SIR_LRM_1B_20210322T154947_20210322T155219_D001	
CS_OFFL_SIR_LRM_1B_20210322T155221_20210322T155813_D001	
CS_OFFL_SIR_LRM_1B_20210322T160829_20210322T161124_D001	
CS_OFFL_SIR_LRM_1B_20210322T164141_20210322T164254_D001	
CS_OFFL_SIR_LRM_1B_20210322T164425_20210322T164456_D001	
CS_OFFL_SIR_LRM_1B_20210322T164501_20210322T164508_D001	
CS_OFFL_SIR_LRM_1B_20210322T164511_20210322T164516_D001	
CS_OFFL_SIR_LRM_1B_20210322T164518_20210322T164536_D001	
CS_OFFL_SIR_LRM_1B_20210322T164539_20210322T164546_D001	
CS_OFFL_SIR_LRM_1B_20210322T164548_20210322T164550_D001	
CS_OFFL_SIR_LRM_1B_20210322T164552_20210322T164724_D001	
CS OEEL SID I DM 1D 20210222T164726 20210222T164744 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 echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210322T164726_20210322T164744_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164746_20210322T164841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164844_20210322T164847_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164850_20210322T164859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164901_20210322T164914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164920_20210322T164922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164925_20210322T164928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T164936_20210322T165011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T165014_20210322T165137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T165141_20210322T165315_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T165317_20210322T165554_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T171122_20210322T171711_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210322T171956_20210322T174415_D001	Loss of echo	The tracking echo is missing for one or more records

Loss of echo

CS_OFFL_SIR_LRM_1B_20210322T174636_20210322T175505_D001
CS_OFFL_SIR_LRM_1B_20210322T175714_20210322T182305_D001
CS_OFFL_SIR_LRM_1B_20210322T182649_20210322T183121_D001
CS_OFFL_SIR_LRM_1B_20210322T184620_20210322T184706_D001
CS_OFFL_SIR_LRM_1B_20210322T184829_20210322T185225_D001
CS_OFFL_SIR_LRM_1B_20210322T185429_20210322T185448_D001
CS_OFFL_SIR_LRM_1B_20210322T185450_20210322T185611_D001
CS_OFFL_SIR_LRM_1B_20210322T185613_20210322T185641_D001
CS_OFFL_SIR_LRM_1B_20210322T185643_20210322T185648_D001
CS_OFFL_SIR_LRM_1B_20210322T185650_20210322T192320_D001
CS_OFFL_SIR_LRM_1B_20210322T193607_20210322T200325_D001
CS_OFFL_SIR_LRM_1B_20210322T200327_20210322T200351_D001
CS_OFFL_SIR_LRM_1B_20210322T200354_20210322T200614_D001
CS_OFFL_SIR_LRM_1B_20210322T200915_20210322T201135_D001
CS_OFFL_SIR_LRM_1B_20210322T212632_20210322T213036_D001
CS_OFFL_SIR_LRM_1B_20210322T213411_20210322T213427_D001
CS_OFFL_SIR_LRM_1B_20210322T213605_20210322T214151_D001
CS_OFFL_SIR_LRM_1B_20210322T214444_20210322T214514_D001
CS_OFFL_SIR_LRM_1B_20210322T214536_20210322T214708_D001
CS_OFFL_SIR_LRM_1B_20210322T231631_20210322T232235_D001
CS_OFFL_SIR_LRM_1B_20210322T232357_20210322T232410_D001
CS_OFFL_SIR_LRM_1B_20210322T232440_20210322T232603_D001

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

L

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

1

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_20210322T030626_20210322T032016_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

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

0

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.

61

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 Description **Product** Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS_OFFL_SIR_LRM_2__20210321T235941_20210322T000540_D001 Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error CS_OFFL_SIR_LRM_2__20210322T001145_20210322T001213_D001 for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error CS_OFFL_SIR_LRM_2__20210322T003645_20210322T011024_D001 for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more CS_OFFL_SIR_LRM_2__20210322T012345_20210322T012544_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__20210322T012835_20210322T015934_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__20210322T021937_20210322T022717_D001 Error (Retracker 2) records

CS_OFFL_SIR_LRM_220210322T023158_20210322T023238_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_220210322T023248_20210322T024945_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_220210322T030626_20210322T032016_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_220210322T032229_20210322T033400_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_220210322T033546_20210322T033654_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210322T040201_20210322T041219_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_220210322T041359_20210322T042850_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_220210322T044423_20210322T044600_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_220210322T044759_20210322T045834_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_220210322T050035_20210322T050608_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_220210322T051845_20210322T051900_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_220210322T054458_20210322T060811_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_220210322T062105_20210322T065002_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_220210322T071910_20210322T071943_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210322T072129_20210322T074730_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_220210322T080028_20210322T083446_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_220210322T085742_20210322T090432_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_220210322T091035_20210322T091538_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_220210322T093949_20210322T101350_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_220210322T102741_20210322T102835_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_220210322T103507_20210322T103619_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_220210322T104600_20210322T104948_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_220210322T104952_20210322T105147_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_220210322T105212_20210322T110700_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_220210322T111905_20210322T114159_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_220210322T114350_20210322T115352_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_220210322T120545_20210322T120623_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_220210322T121534_20210322T121708_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_220210322T122352_20210322T124610_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_220210322T125942_20210322T132937_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_220210322T134841_20210322T140737_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_220210322T140804_20210322T142104_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_220210322T143834_20210322T145422_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_220210322T145625_20210322T150545_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_220210322T152841_20210322T153029_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_220210322T153304_20210322T154505_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_220210322T155221_20210322T155813_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_220210322T161752_20210322T163252_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_220210322T164518_20210322T164536_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210322T164539_20210322T164546_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210322T164936_20210322T165011_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210322T165317_20210322T165554_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210322T171122_20210322T171711_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_220210322T171956_20210322T174415_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_220210322T175714_20210322T182305_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_220210322T183244_20210322T183301_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_220210322T185650_20210322T192320_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_220210322T193607_20210322T200325_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_220210322T202923_20210322T210228_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_220210322T211502_20210322T212127_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_220210322T213605_20210322T214151_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_220210322T214708_20210322T214851_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_220210322T220655_20210322T224147_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_220210322T225401_20210322T231339_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_220210322T231631_20210322T232235_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	193	193	193	0	0
SIR_SAR_1B	114	114	114	0	0
SIR_SIN_1B	106	106	106	0	0
SIR_LRM_2	193	193	188	5	0
SIR_SAR_2	106	114	114	0	0
SIR_SIN_2	114	106	104	2	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
SIR_GDR_2_	15	15	15	15	15	15	15	-			

Test Description Key:	est Description Key:						
Abbreviation	Test name	Details					
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch					
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)					
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)					
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)					
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)					
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)					
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)					

6.2 QCC Warnings

Number of QCC reports with warnings

8

1

15

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_GDR_2_	0	1					
SIR_LRM_2_	0	5					

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:

Product name

CS_OFFL_SIR_GDR_2__20210322T231224_20210323T005139_D002