



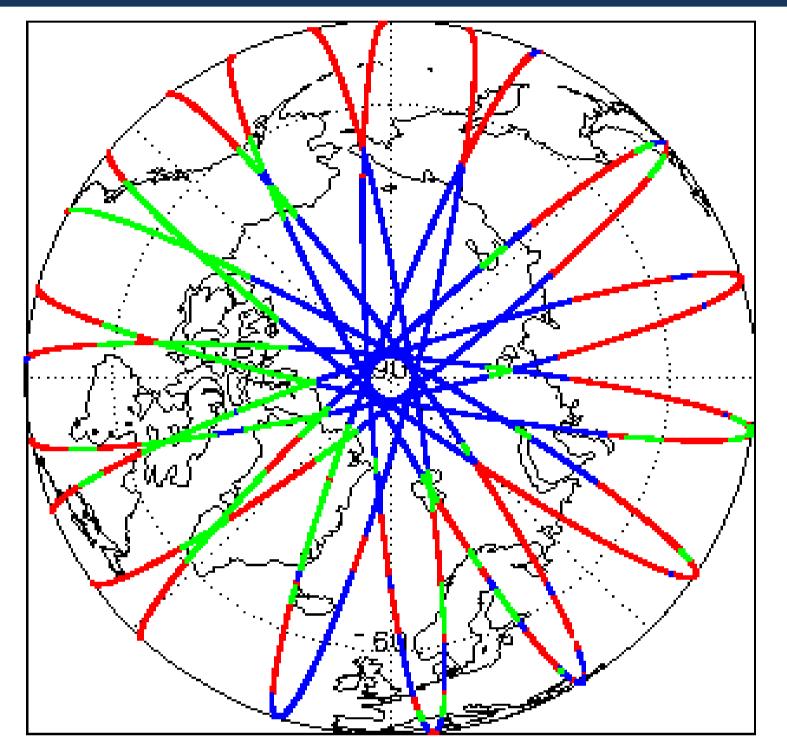
1. Overview

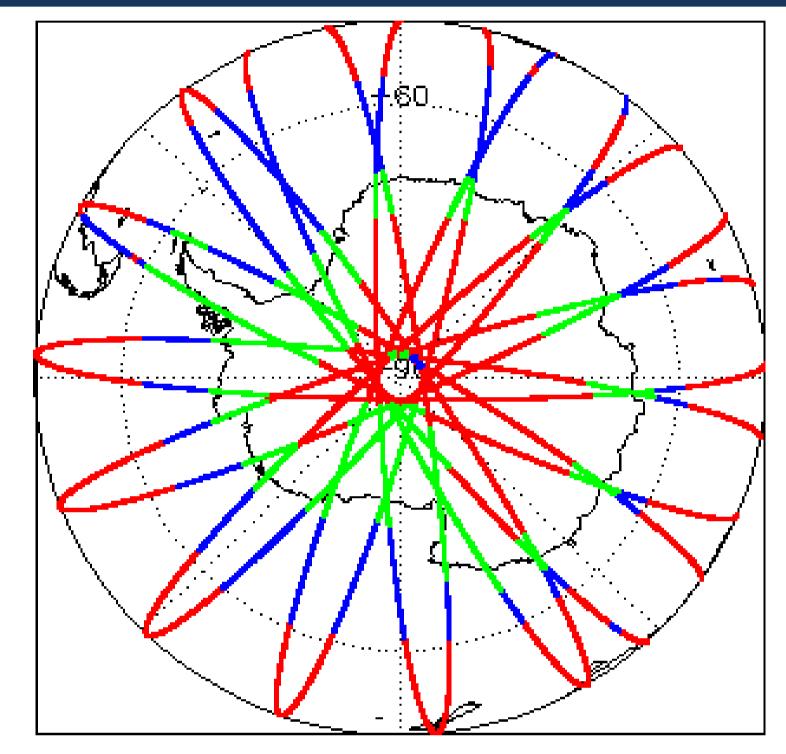
Report Production Date:	30-Sep-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

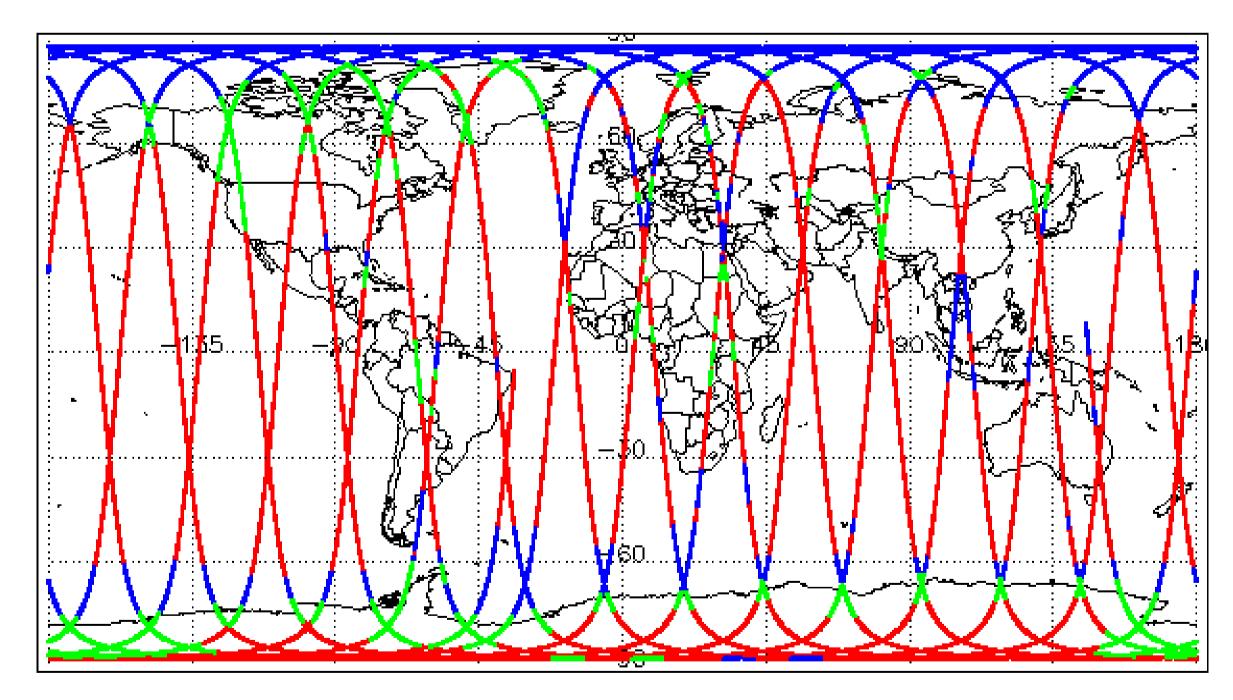
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

Mission / Instru	iment News
30-Aug-2020	None
31-Aug-2020	None
01-Sep-2020	Nothing planned

2. Global Coverage



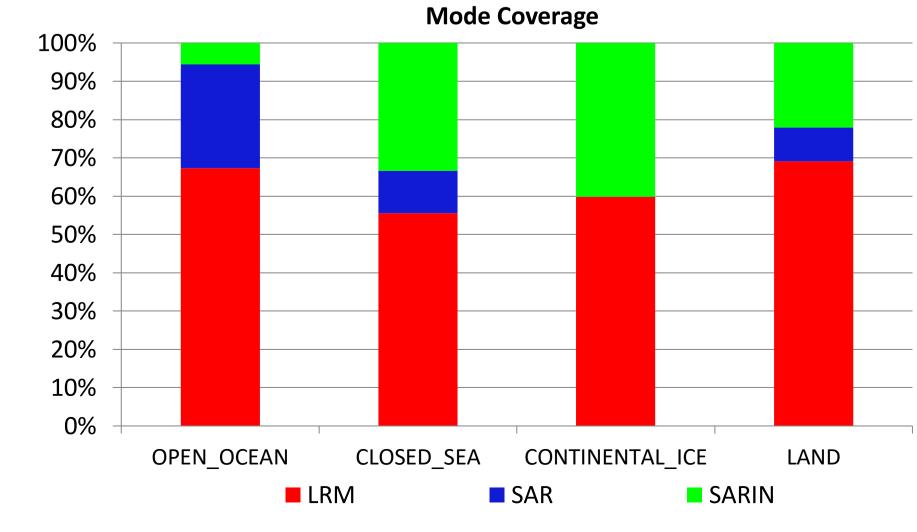


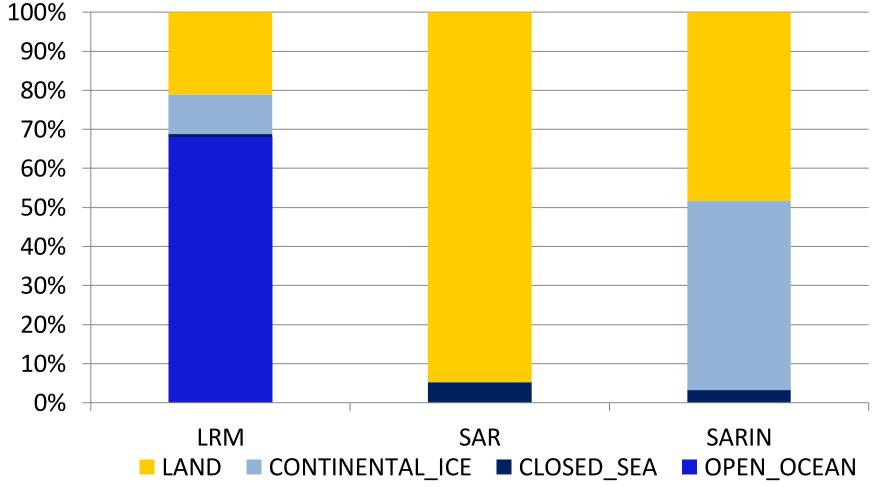




LRM	66.6
SAR	20.2
SARIn	13.2

Surface Type





3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A			
	4	Level 1B Data Quality Check		
4.1 L1B Product Format Che	ck			
Each product, retrieved and unpacked from	n the science server, is checked	to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).		
Number of products with errors:	0			
4.2 L1B Product Header Ana	lysis			
For all products, a series of pre-defined ch	ecks are carried out on the MPH	and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.		
Number of products with errors:	0			
4.3 Star Tracker Usage Chec	;k			
Each product is checked in order to ensure a valid star tracker file has 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. Th	ne bit value of this flag indicates any problems when set.		
Loss of Echo Flag: This flag is currently s	set for some products over land,	out this is to be expected.		

Number of products with errors:

100

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200831T002121_20200831T002316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T003432_20200831T005842_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200831T010109_20200831T010715_D001 CS_OFFL_SIR_LRM_1B_20200831T012021_20200831T013623_D001 CS_OFFL_SIR_LRM_1B_20200831T013907_20200831T014136_D001 CS_OFFL_SIR_LRM_1B_20200831T014200_20200831T014245_D001 CS_OFFL_SIR_LRM_1B_20200831T014247_20200831T014809_D001 CS_OFFL_SIR_LRM_1B_20200831T015958_20200831T020236_D001 CS_OFFL_SIR_LRM_1B_20200831T023256_20200831T024103_D001 CS_OFFL_SIR_LRM_1B_20200831T024110_20200831T024158_D001 CS_OFFL_SIR_LRM_1B_20200831T024200_20200831T024201_D001 CS_OFFL_SIR_LRM_1B_20200831T024204_20200831T024717_D001 CS_OFFL_SIR_LRM_1B_20200831T025901_20200831T030115_D001 CS_OFFL_SIR_LRM_1B_20200831T030238_20200831T030829_D001 CS_OFFL_SIR_LRM_1B_20200831T031112_20200831T031403_D001 CS_OFFL_SIR_LRM_1B_20200831T031405_20200831T033353_D001 CS_OFFL_SIR_LRM_1B_20200831T033748_20200831T034634_D001 CS_OFFL_SIR_LRM_1B_20200831T034949_20200831T041336_D001 CS_OFFL_SIR_LRM_1B_20200831T041612_20200831T041707_D001 CS_OFFL_SIR_LRM_1B_20200831T041832_20200831T042238_D001 CS_OFFL_SIR_LRM_1B_20200831T043947_20200831T044917_D001 CS_OFFL_SIR_LRM_1B_20200831T044920_20200831T051328_D001 CS_OFFL_SIR_LRM_1B_20200831T052919_20200831T055342_D001 CS_OFFL_SIR_LRM_1B_20200831T055344_20200831T055359_D001 CS_OFFL_SIR_LRM_1B_20200831T055401_20200831T055517_D001 CS_OFFL_SIR_LRM_1B_20200831T055519_20200831T055527_D001 CS_OFFL_SIR_LRM_1B_20200831T055530_20200831T055746_D001 CS_OFFL_SIR_LRM_1B_20200831T055753_20200831T060706_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_20200831T072526_20200831T073022_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073128_20200831T073524_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073526_20200831T073524_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073526_20200831T073543_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073721_20200831T074038_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T074300_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T074575_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T074575_20200831T080841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090413_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T09017_20200831T0904320001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1	S_OFFL_SIR_LRM_1B_20200831T071542_20200831T072405_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T073544_20200831T073524_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073526_20200831T073543_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073721_20200831T074038_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T074300_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T075752_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T075752_20200831T080841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T08043_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090050_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_	S_OFFL_SIR_LRM_1B_20200831T072526_20200831T073022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T073526_20200831T073543_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T073721_20200831T074038_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T074300_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T075752_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T075752_20200831T080841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090050_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T09050_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T073128_20200831T073253_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T073721_20200831T074038_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T074300_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T075752_20200831T080841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090050_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T09050_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T073444_20200831T073524_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T074300_20200831T074335_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T075752_20200831T080841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T080854_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T073526_20200831T073543_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T075752_20200831T080841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T080854_20200831T083109_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090050_20200831T0909403_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090050_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T073721_20200831T074038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T080854_20200831T083109_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T0909403_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T074300_20200831T074335_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T080854_20200831T083109_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T0909403_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T075752_20200831T080841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001Loss of echoThe tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T080845_20200831T080846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001 Loss of echo The tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T080854_20200831T083109_D001	Loss of echo	The tracking echo is missing for one or more records
	S_OFFL_SIR_LRM_1B_20200831T090017_20200831T090443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T091113_20200831T091356_D001 Loss of echo The tracking echo is missing for one or more records	S_OFFL_SIR_LRM_1B_20200831T090550_20200831T090930_D001	Loss of echo	The tracking echo is missing for one or more records
	S_OFFL_SIR_LRM_1B_20200831T091113_20200831T091356_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200831T091625_20200831T091753_D001 CS_OFFL_SIR_LRM_1B_20200831T093513_20200831T094633_D001 CS_OFFL_SIR_LRM_1B_20200831T094918_20200831T101017_D001 CS_OFFL_SIR_LRM_1B_20200831T111410_20200831T111710_D001 CS_OFFL_SIR_LRM_1B_20200831T111714_20200831T112200_D001 CS_OFFL_SIR_LRM_1B_20200831T112340_20200831T113357_D001 CS_OFFL_SIR_LRM_1B_20200831T113400_20200831T114931_D001 CS OFFL SIR LRM 1B 20200831T115746 20200831T120010 D001 CS_OFFL_SIR_LRM_1B_20200831T120830_20200831T122058_D001 CS_OFFL_SIR_LRM_1B_20200831T125245_20200831T125844_D001 CS_OFFL_SIR_LRM_1B_20200831T130228_20200831T131156_D001 CS_OFFL_SIR_LRM_1B_20200831T131359_20200831T132837_D001 CS_OFFL_SIR_LRM_1B_20200831T134557_20200831T135745_D001 CS_OFFL_SIR_LRM_1B_20200831T140225_20200831T141520_D001 CS_OFFL_SIR_LRM_1B_20200831T141643_20200831T141853_D001 CS_OFFL_SIR_LRM_1B_20200831T143134_20200831T143542_D001 CS_OFFL_SIR_LRM_1B_20200831T143636_20200831T143645_D001 CS_OFFL_SIR_LRM_1B_20200831T143647_20200831T144505_D001 CS_OFFL_SIR_LRM_1B_20200831T151618_20200831T151731_D001 CS_OFFL_SIR_LRM_1B_20200831T152328_20200831T154858_D001 CS_OFFL_SIR_LRM_1B_20200831T155004_20200831T155640_D001 CS_OFFL_SIR_LRM_1B_20200831T161016_20200831T161709_D001 CS_OFFL_SIR_LRM_1B_20200831T161716_20200831T161727_D001 CS_OFFL_SIR_LRM_1B_20200831T161730_20200831T161743_D001 CS_OFFL_SIR_LRM_1B_20200831T161917_20200831T162015_D001 CS_OFFL_SIR_LRM_1B_20200831T162249_20200831T164338_D001 CS OFFL SIR LRM 1B 20200831T170208 20200831T172927 D001 CS OFFL SIR LRM 1B 20200831T172930 20200831T172942 D001 CS_OFFL_SIR_LRM_1B_20200831T172945_20200831T172946_D001 CS_OFFL_SIR_LRM_1B_20200831T175113_20200831T175644_D001 CS_OFFL_SIR_LRM_1B_20200831T175750_20200831T175906_D001 CS_OFFL_SIR_LRM_1B_20200831T175909_20200831T175911_D001 CS_OFFL_SIR_LRM_1B_20200831T175913_20200831T180102_D001 CS_OFFL_SIR_LRM_1B_20200831T180104_20200831T182553_D001 CS_OFFL_SIR_LRM_1B_20200831T183416_20200831T183745_D001 CS_OFFL_SIR_LRM_1B_20200831T192709_20200831T193141_D001 CS_OFFL_SIR_LRM_1B_20200831T193208_20200831T193432_D001 CS_OFFL_SIR_LRM_1B_20200831T193505_20200831T193545_D001 CS_OFFL_SIR_LRM_1B_20200831T193733_20200831T193846_D001 CS_OFFL_SIR_LRM_1B_20200831T194037_20200831T194119_D001 CS_OFFL_SIR_LRM_1B_20200831T194132_20200831T194202_D001 CS_OFFL_SIR_LRM_1B_20200831T194308_20200831T194610_D001 CS_OFFL_SIR_LRM_1B_20200831T194711_20200831T194805_D001 CS_OFFL_SIR_LRM_1B_20200831T194949_20200831T195021_D001 CS_OFFL_SIR_LRM_1B_20200831T195116_20200831T195811_D001 CS_OFFL_SIR_LRM_1B_20200831T202150_20200831T205645_D001 CS_OFFL_SIR_LRM_1B_20200831T210658_20200831T210915_D001 CS_OFFL_SIR_LRM_1B_20200831T211103_20200831T211137_D001 CS_OFFL_SIR_LRM_1B_20200831T211351_20200831T211424_D001 CS_OFFL_SIR_LRM_1B_20200831T211803_20200831T212418_D001 CS_OFFL_SIR_LRM_1B_20200831T214835_20200831T215339_D001 CE OFFL SID LDM 1D 20200821T220042 20200821T222622 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 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 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 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 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 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 The treaking each is missing for or

CS_OFFL_SIR_LRM_1B_20200831T220043_20200831T223623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T234030_20200831T235133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T235242_20200831T235440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T235442_20200831T235443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T235446_20200831T235447_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T235450_20200831T235451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T235454_20200831T235502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200831T235506_20200831T235704_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

0

4.6 L1B Auxilary Data File Usage Ch	neck
Each product is checked for missing Data Set Descri	otors 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
4.7 L1B Auxiliary Correction Error C	JNECK
CryoSat L1B data includes a correction error flag (field	d 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 D	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.

3

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:

Test Failed Product Description The tracking echo has returned an error and the Rx1 Echo Error flag is set, Echo error, TRK echo error CS_OFFL_SIR_LRM_1B_20200831T010109_20200831T010715_D001 indicating a degraded echo The tracking echo has returned an error and the Rx1 Echo Error flag is set, Echo error, TRK echo error CS_OFFL_SIR_LRM_1B_20200831T025901_20200831T030115_D001 indicating a degraded echo The tracking echo has returned an error and the Rx1 Echo Error flag is set, CS_OFFL_SIR_LRM_1B_20200831T141643_20200831T141853_D001 Echo error, TRK echo error 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).



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.

53

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200830T234717_20200831T001145_D001		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220200831T003432_20200831T005842_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_220200831T012021_20200831T013623_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_220200831T022547_20200831T022830_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_220200831T023256_20200831T024103_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200831T025901_20200831T030115_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_220200831T030238_20200831T030829_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_220200831T031112_20200831T031403_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_220200831T031405_20200831T033353_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_220200831T034949_20200831T041336_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_220200831T044920_20200831T051328_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_220200831T052919_20200831T055342_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_220200831T055753_20200831T060706_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_220200831T062118_20200831T065123_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_220200831T070824_20200831T071251_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_220200831T071542_20200831T072405_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_220200831T073444_20200831T073524_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200831T075752_20200831T080841_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_220200831T080854_20200831T083109_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_220200831T090017_20200831T090443_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_220200831T092054_20200831T092246_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_220200831T093513_20200831T094633_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_220200831T094918_20200831T101017_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_220200831T102745_20200831T104654_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_220200831T104742_20200831T105209_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_220200831T105527_20200831T110045_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_220200831T111410_20200831T111710_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_220200831T111714_20200831T112200_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_220200831T112340_20200831T113357_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_220200831T113400_20200831T114931_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_220200831T120830_20200831T122058_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_220200831T122149_20200831T123852_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_220200831T130228_20200831T131156_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_220200831T131359_20200831T132837_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
	I	

	_	
CS_OFFL_SIR_LRM_220200831T134557_20200831T135745_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_220200831T140225_20200831T141520_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_220200831T141643_20200831T141853_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_220200831T143647_20200831T144505_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200831T152328_20200831T154858_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_220200831T162249_20200831T164338_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_220200831T170208_20200831T172927_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_220200831T180104_20200831T182553_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_220200831T184222_20200831T191548_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_220200831T192709_20200831T193141_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_220200831T202150_20200831T205645_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_220200831T210658_20200831T210915_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_220200831T212652_20200831T214322_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_220200831T220043_20200831T223623_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_220200831T224646_20200831T224801_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_220200831T225820_20200831T232116_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_220200831T234030_20200831T235133_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_220200831T235242_20200831T235440_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_220200831T235506_20200831T235704_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	154	154	154	0	0
SIR_SAR_1B	103	103	103	0	0
SIR_SIN_1B	104	104	104	0	0
SIR_LRM_2	154	154	154	0	0
SIR_SAR_2	104	103	103	0	0
SIR_SIN_2	103	104	103	1	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

15

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

Total number of occurrences of each warning

Product Type	AXDME	-	-	-	-	-	-
SIR_SIN_2_	1						

1

0

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

6.2 Missing QCC Reports

Number of products with missing QCC reports: