

10/01/2021



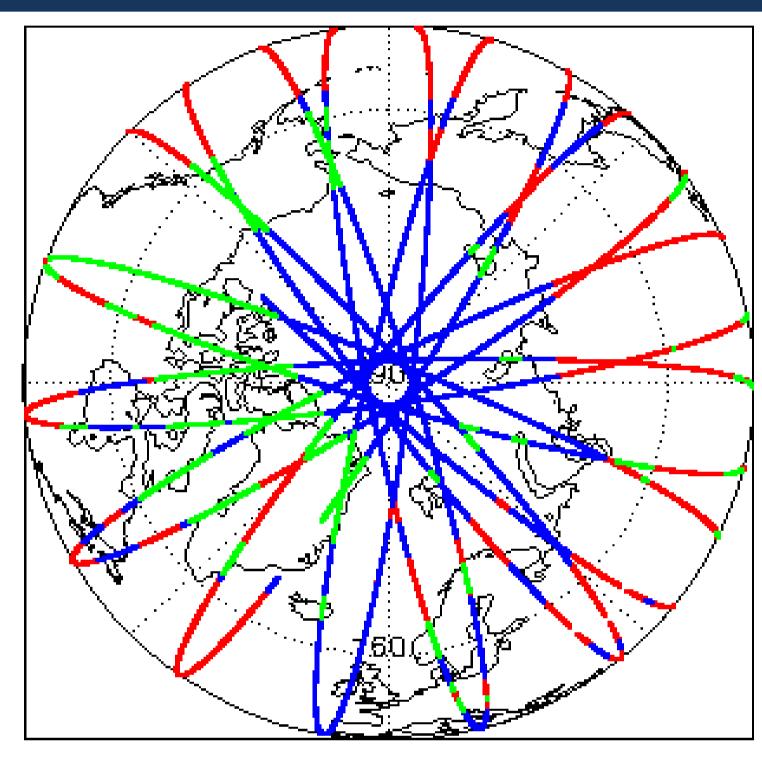
1. Overview

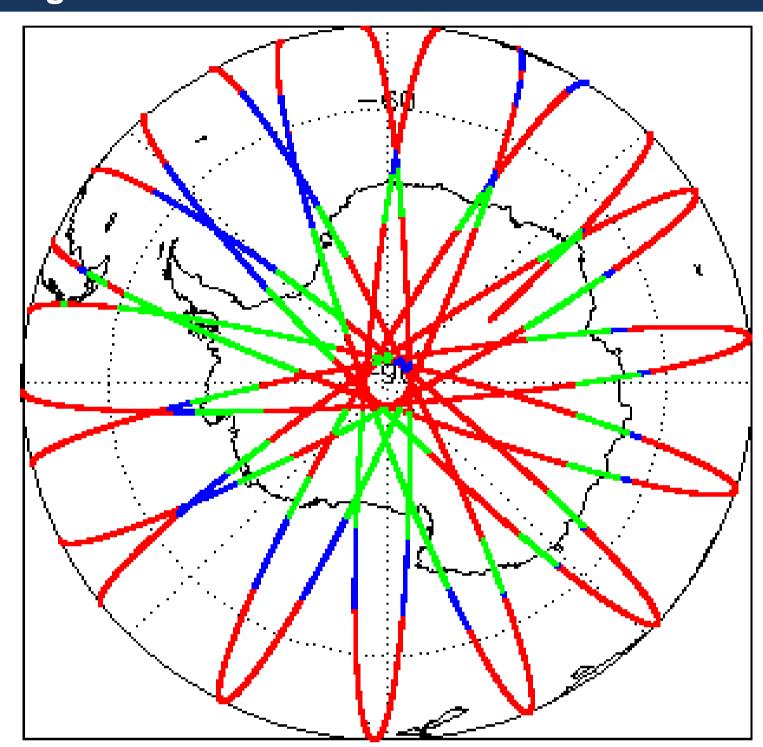
Report Production Date:	10-Feb-2021			
Processor Used:	CryoSat Ice Processor			
Data Used:	L1B and L2 OFFLINE Data			

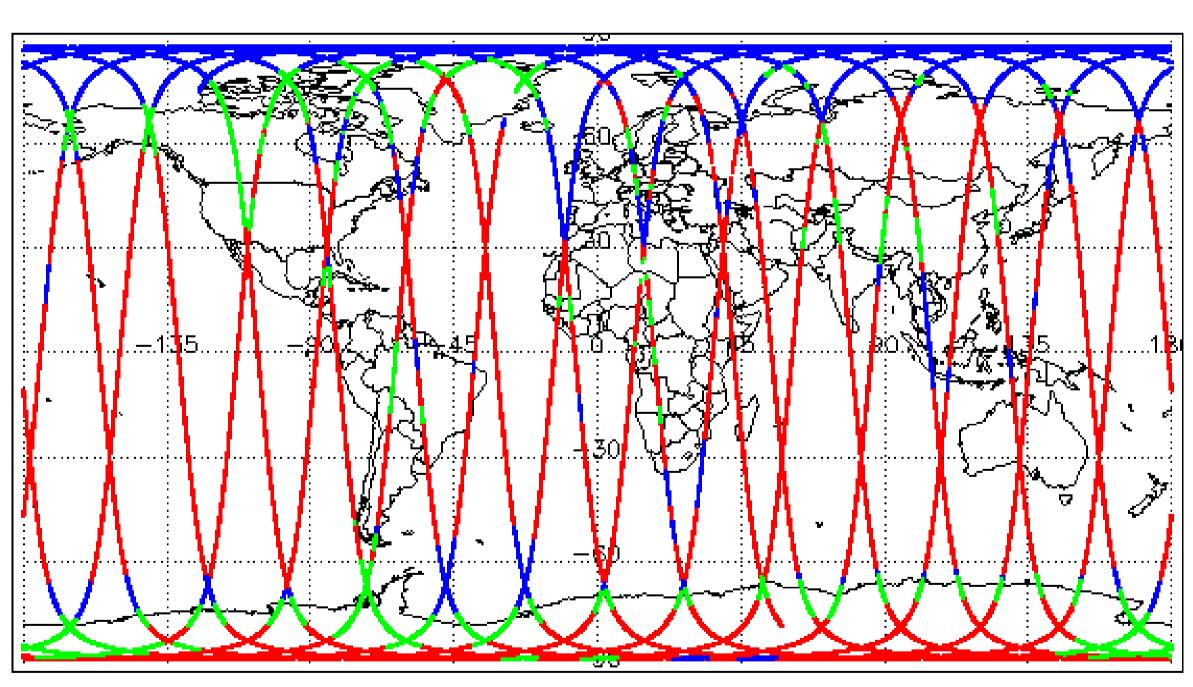
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

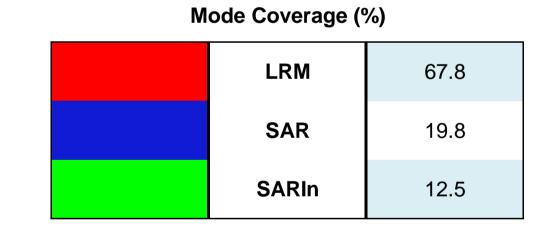
Mission / Instru	Mission / Instrument News					
09-Jan-2021	None					
10-Jan-2021	None					
11-Jan-2021	Nothing planned					

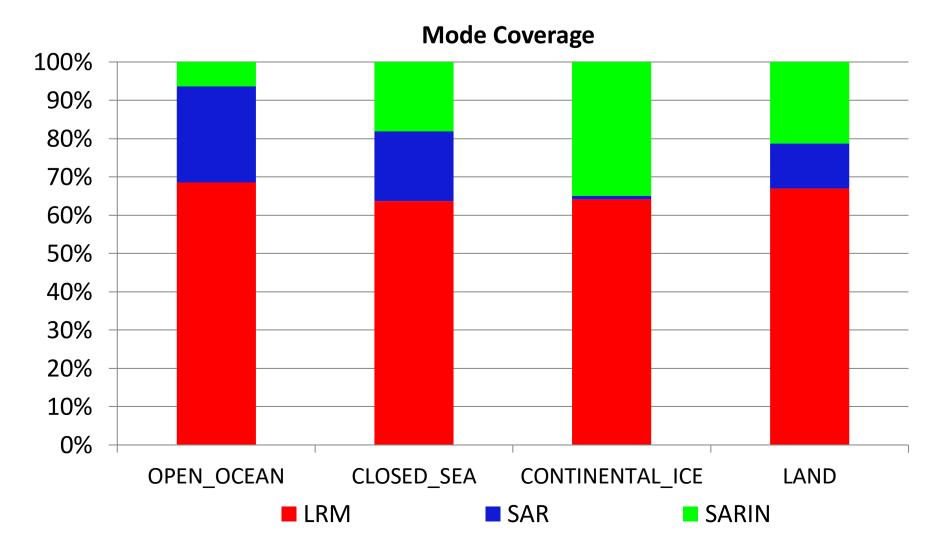
2. Global Coverage

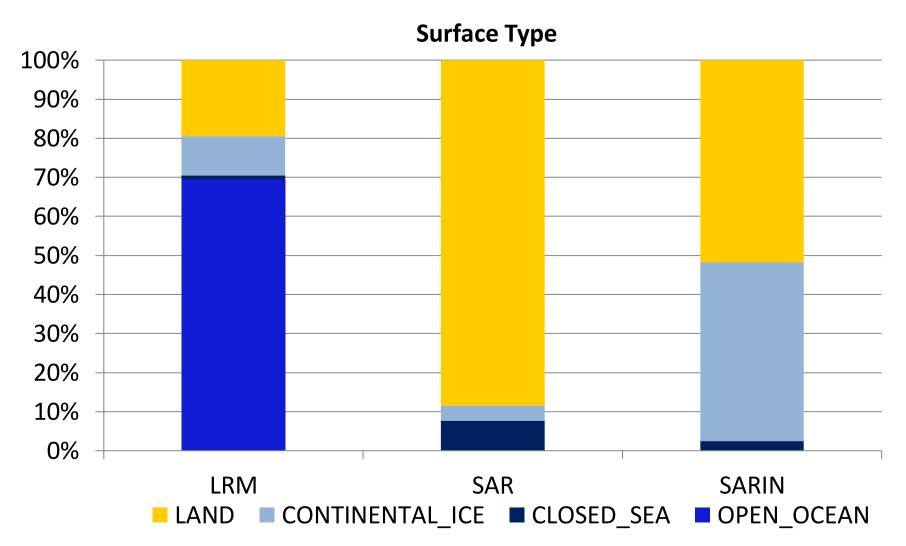












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Number of products with errors:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

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Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210110T000325_20210110T002453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T002459_20210110T002650_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T002652_20210110T003221_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T003425_20210110T003525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T015104_20210110T015458_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T015605_20210110T015658_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T015700_20210110T015935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T020038_20210110T020113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T020116_20210110T020239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T020754_20210110T020912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T021339_20210110T021350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T021400_20210110T021420_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T021420_20210110T021442_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T033613_20210110T034219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T034400_20210110T034847_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T041046_20210110T041111_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T041113_20210110T041209_D001	Loss of echo	The tracking echo is missing for one or more records
S_OFFL_SIR_LRM_1B_20210110T054917_20210110T055004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T055011_20210110T055048_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T055053_20210110T055148_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T055524_20210110T060352_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T060456_20210110T062611_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T064247_20210110T065242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T065349_20210110T065648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T065902_20210110T071023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T072800_20210110T073124_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073127_20210110T073202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073204_20210110T073220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073223_20210110T073224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073227_20210110T073233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073238_20210110T073250_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073253_20210110T073254_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073257_20210110T073302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073304_20210110T073306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073312_20210110T073325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073328_20210110T073333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073336_20210110T073340_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073342_20210110T073641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T073645_20210110T074853_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T082400_20210110T083947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T083949_20210110T084240_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20210110T084446_20210110T085226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T085513_20210110T085541_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T090629_20210110T091016_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091019_20210110T091153_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091156_20210110T091220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091226_20210110T091233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091236_20210110T091244_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091249_20210110T091311_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091313_20210110T091329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091332_20210110T091350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091353_20210110T091408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091413_20210110T091429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T091527_20210110T091606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T094758_20210110T095135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T095749_20210110T102419_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T102421_20210110T102501_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T102505_20210110T102535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T102537_20210110T102547_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T102550_20210110T102557_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T102559_20210110T102633_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T102635_20210110T102638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T104937_20210110T105623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T104937_20210110T103023_D001 CS_OFFL_SIR_LRM_1B_20210110T105751_20210110T112403_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_20210110T122807_20210110T123107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T123141_20210110T123333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T123423_20210110T123813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T123815_20210110T124030_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124033_20210110T124036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124040_20210110T124056_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124058_20210110T124058_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124101_20210110T124201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124227_20210110T124331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124334_20210110T124344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124346_20210110T124614_D001	Loss of echo	The tracking cohe is missing for one or more records
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	Loss of echo	
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001	Loss of echo Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001	Loss of echo Loss of echo Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T161848_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_202210110T171134_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T1531346_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171151_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T1771155_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T1771552_D001 CS_OFFL_SIR_LRM_1B_20210110T1714439_20210110T175752_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1757552_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1757552_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T177155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T1775752_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1780831_D001 CS_OFFL_SIR_LRM_1B_20210110T1780634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T180831_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T1711203_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T1711203_20210110T177552_D001 CS_OFFL_SIR_LRM_1B_20210110T1714439_20210110T175752_D001 CS_OFFL_SIR_LRM_1B_20210110T17180634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T181513_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T181513_20210110T183053_D001 CS_OFFL_SIR_LRM_1B_20210110T184544_20210110T184637_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T177155_D001 CS_OFFL_SIR_LRM_1B_20210110T1714439_20210110T1775752_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T188637_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T1846640_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T1771552_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1771552_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1780831_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T188637_D001 CS_OFFL_SIR_LRM_1B_20210110T184544_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184649_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T184640_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T171255_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1775752_D001 CS_OFFL_SIR_LRM_1B_20210110T1784634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184544_20210110T184637_D001 CS_OFFL_SIR_LRM_1B_20210110T184544_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184642_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184642_20210110T184654_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171439_20210110T1715752_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1780331_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T188637_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T1846630_20210110T1846647_D001 CS_OFFL_SIR_LRM_1B_20210110T1846650_20210110T1846647_D001 CS_OFFL_SIR_LRM_1B_20210110T1846650_20210110T1846647_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141245_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T153466_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171555_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1715752_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184654_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184705_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T155456_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171439_20210110T1715752_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1780331_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T188637_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184640_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T1846630_20210110T1846647_D001 CS_OFFL_SIR_LRM_1B_20210110T1846650_20210110T1846647_D001 CS_OFFL_SIR_LRM_1B_20210110T1846650_20210110T1846647_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141245_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T153466_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171555_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T1715752_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184654_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184705_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T1410625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141723_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T14304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T171255_D001 CS_OFFL_SIR_LRM_1B_20210110T174439_20210110T175752_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T184637_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184649_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184642_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184771_D001 CS_OFFL_SIR_LRM_1B_20210110T184679_20210110T1847711_D001 CS_OFFL_SIR_LRM_1B_20210110T184679_20210110T1847711_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T1411001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1411246_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T1412354_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T155366_D001 CS_OFFL_SIR_LRM_1B_20210110T153466_20210110T155366_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171138_20210110T171155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T1715752_D001 CS_OFFL_SIR_LRM_1B_20210110T1714439_20210110T177552_D001 CS_OFFL_SIR_LRM_1B_20210110T1714439_20210110T1780831_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T188053_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184644_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184644_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184669_20210110T184671_D001 CS_OFFL_SIR_LRM_1B_20210110T184669_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184669_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184669_20210110T1846715_D001 CS_OFFL_SIR_LRM_1B_20210110T184669_20210110T1846715_D001 CS_OFFL_SIR_LRM_1B_20210110T184669_20210110T1846715_D001 CS_OFFL_SIR_LRM_1B_20210110T184713_20210110T184715_D001 CS_OFFL_SIR_LRM_1B_20210110T184713_20210110T1847145_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141605_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T1412354_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T144304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T150015_20210110T151344_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T161848_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171151_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T171555_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T171555_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T184637_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T184637_D001 CS_OFFL_SIR_LRM_1B_20210110T184639_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184654_D001 CS_OFFL_SIR_LRM_1B_20210110T184665_20210110T184715_D001 CS_OFFL_SIR_LRM_1B_20210110T184713_20210110T184715_D001 CS_OFFL_SIR_LRM_1B_20210110T184713_20210110T184715_D001 CS_OFFL_SIR_LRM_1B_20210110T184753_20210110T184733_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_20210110T124616_20210110T125221_D001 CS_OFFL_SIR_LRM_1B_20210110T130542_20210110T131123_D001 CS_OFFL_SIR_LRM_1B_20210110T140610_20210110T140625_D001 CS_OFFL_SIR_LRM_1B_20210110T141001_20210110T141127_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T141246_D001 CS_OFFL_SIR_LRM_1B_20210110T141138_20210110T1412354_D001 CS_OFFL_SIR_LRM_1B_20210110T141907_20210110T142354_D001 CS_OFFL_SIR_LRM_1B_20210110T142357_20210110T143304_D001 CS_OFFL_SIR_LRM_1B_20210110T153132_20210110T153144_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T153257_D001 CS_OFFL_SIR_LRM_1B_20210110T153146_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T160015_20210110T155936_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T171134_D001 CS_OFFL_SIR_LRM_1B_20210110T171030_20210110T17155_D001 CS_OFFL_SIR_LRM_1B_20210110T171203_20210110T175752_D001 CS_OFFL_SIR_LRM_1B_20210110T180634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T180831_D001 CS_OFFL_SIR_LRM_1B_20210110T184634_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184654_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184650_20210110T184647_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184675_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184775_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184671_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184671_D001 CS_OFFL_SIR_LRM_1B_20210110T184657_20210110T184671_D001 CS_OFFL_SIR_LRM_1B_20210110T184703_20210110T184775_D001 CS_OFFL_SIR_LRM_1B_20210110T184703_20210110T184775_D001 CS_OFFL_SIR_LRM_1B_20210110T184703_20210110T1847715_D001 CS_OFFL_SIR_LRM_1B_20210110T184703_20210110T1847715_D001 CS_OFFL_SIR_LRM_1B_20210110T184773_20210110T1847715_D001 CS_OFFL_SIR_LRM_1B_20210110T184773_20210110T184748_D001 CS_OFFL_SIR_LRM_1B_20210110T184773_20210110T184748_D001 CS_OFFL_SIR_LRM_1B_20210110T184773_20210110T184748_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_20210110T192845_20210110T192908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T192910_20210110T192912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T192917_20210110T192929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T192932_20210110T192934_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T192940_20210110T192950_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T192953_20210110T192953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T192956_20210110T193015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T193018_20210110T193609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T201814_20210110T201920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T202148_20210110T202200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T202231_20210110T202507_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T202512_20210110T202703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T202712_20210110T202811_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T202815_20210110T203058_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T203100_20210110T203224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T204758_20210110T205509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T205611_20210110T212037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T212309_20210110T213133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T213404_20210110T215956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T220321_20210110T220755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T222504_20210110T222830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T222836_20210110T222851_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T223103_20210110T223140_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T223145_20210110T225850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T231256_20210110T234034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T234041_20210110T234243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210110T234540_20210110T234811_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:

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: 0

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:

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.

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210110T000325_20210110T002453_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_220210110T002459_20210110T002650_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_220210110T003949_20210110T004145_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_220210110T005439_20210110T012855_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_220210110T014223_20210110T014530_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_220210110T023437_20210110T024309_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210110T024555_20210110T030809_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_220210110T032123_20210110T033425_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_220210110T033613_20210110T034219_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_220210110T034400_20210110T034847_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_220210110T041330_20210110T044659_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_220210110T050506_20210110T053603_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_220210110T054917_20210110T055004_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210110T055011_20210110T055048_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210110T055524_20210110T060352_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_220210110T060456_20210110T062611_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_220210110T064247_20210110T065242_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_220210110T065902_20210110T071023_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_220210110T071219_20210110T071351_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210110T073645_20210110T074853_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_220210110T075033_20210110T080503_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_220210110T082051_20210110T082346_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_220210110T082400_20210110T083947_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20210110T085513_20210110T085541_D001 CS_OFFL_SIR_LRM_2_20210110T092133_20210110T094451_D001 CS_OFFL_SIR_LRM_2_20210110T092133_20210110T094451_D001 CS_OFFL_SIR_LRM_2_20210110T092133_20210110T094451_D001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter	
CS_OFFL_SIR_LRM_2_20210110T085513_20210110T085541_D001 (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backs	error
CS_OFFL_SIR_LRM_2_20210110T092133_20210110T094451_D001 (Retracker 3), Backscatter Error (Retracker 2) (Retracker 2) (Retracker 3), Backscatter Error for Retracker 2 and a neight and backscatter error for Ret	
U.S. OFFI. SIR LRM / 2021011011045749 202101101102419 DOD1	error
	re
CS_OFFL_SIR_LRM_2_20210110T104745_20210110T104921_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records There is a height and backscatter error for Retracker 2 for one or meaning records	re
CS_OFFL_SIR_LRM_2_20210110T105751_20210110T112403_D001 Height Error (Retracker 2), Backscatter Error is a height and backscatter records There is a height and backscatter error for Retracker 2 for one or metabolic records	re
CS_OFFL_SIR_LRM_220210110T113807_20210110T121134_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or metabolic process. There is a height and backscatter records.	re
CS_OFFL_SIR_LRM_2_20210110T123815_20210110T124030_D001 Height Error (Retracker 2), Backscatter Error is a height and backscatter records There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T124616_20210110T125221_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or metabolic process. There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T125732_20210110T130335_D001 Height Error (Retracker 2), Backscatter Error is a height and backscatter records There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T130542_20210110T131123_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more re-	cords
CS_OFFL_SIR_LRM_2_20210110T131719_20210110T135024_D001 Height Error (Retracker 2), Backscatter Error (so a height and backscatter error for Retracker 2 and no DEM Slope Model was used for the location of one or more records	or
CS_OFFL_SIR_LRM_2_20210110T141138_20210110T141246_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retrac	error
CS_OFFL_SIR_LRM_2_20210110T142357_20210110T144304_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T145557_20210110T153021_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records There is a height and backscatter error for Retracker 2 for one or more records	re
CS_OFFL_SIR_LRM_2_20210110T153146_20210110T153257_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more re-	cords
CS_OFFL_SIR_LRM_2_20210110T155456_20210110T155936_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T160015_20210110T161848_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retrac	error
CS_OFFL_SIR_LRM_2_20210110T162036_20210110T162045_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T163623_20210110T170700_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retrac	error
CS_OFFL_SIR_LRM_220210110T172518_20210110T174357_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T174439_20210110T175752_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) a height and backscatter records There is a height and backscatter records	re
CS_OFFL_SIR_LRM_220210110T181513_20210110T183053_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or metabolic process.	re
CS_OFFL_SIR_LRM_2_20210110T183256_20210110T184218_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T190944_20210110T192140_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_2_20210110T195449_20210110T200924_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter records	re
CS_OFFL_SIR_LRM_220210110T202231_20210110T202507_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more re-	cords

CS_OFFL_SIR_LRM_220210110T202512_20210110T202703_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210110T204758_20210110T205509_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_220210110T205611_20210110T212037_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_220210110T213404_20210110T215956_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210110T220925_20210110T220956_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_220210110T223145_20210110T225850_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_220210110T231256_20210110T234034_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	202	202	202	0	0
SIR_SAR_1B	120	120	120	0	0
SIR_SIN_1B	107	107	107	0	0
SIR_LRM_2	202	202	197	5	0
SIR_SAR_2	107	118	118	0	0
SIR_SIN_2	118	107	104	3	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:					
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

Total number of occurrences of each warning

SIR_LRM_2_ 0 5	Product Type	AXDME	AXSMMEOCI	-	-	-	-	•
	SIR_LRM_2_	0	5					
	SIR_SIN_2_	3	0					

Test 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:

2

Product name

CS_OFFL_SIR_GDR_2_20210110T165334_20210110T183249_D002 CS_OFFL_SIR_GDR_2_20210110T183249_20210110T201203_D002