

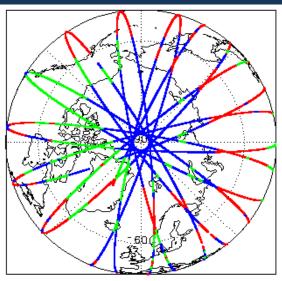
1. Overview

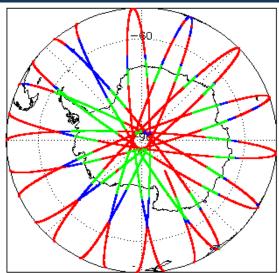
Report Production Date:	18-May-2021		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

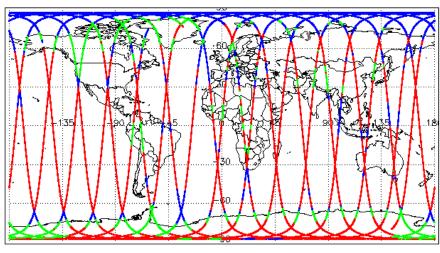
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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

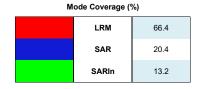
Mission / Instru	ment News
16-Apr-2021	None
17-Apr-2021	None
18-Apr-2021	Nothing planned

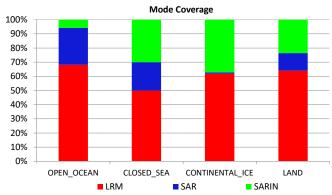
2. Global Coverage

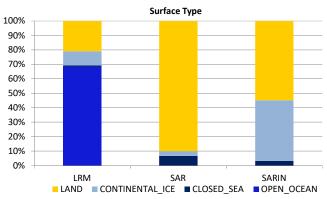












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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:

0

4.3 Star Tracker Usage Check

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

Number of products with errors:

0

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The 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.

lumber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210417T000900_20210417T000928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T000930_20210417T000944_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T000947_20210417T001017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T001020_20210417T001021_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T001023_20210417T001036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T002757_20210417T003014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T003017_20210417T003019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T003021_20210417T003724_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T003726_20210417T003828_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T005258_20210417T005509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T010349_20210417T011419_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T011426_20210417T011612_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T014808_20210417T014815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T014819_20210417T014833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T014835_20210417T014839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T014842_20210417T014911_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T014913_20210417T014919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T014922_20210417T015110_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T015113_20210417T015120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T015124_20210417T015344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T015710_20210417T020717_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T024557_20210417T024920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T024922_20210417T024923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T024927_20210417T024928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T024932_20210417T024947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T024952_20210417T024952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T024957_20210417T025000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T025002_20210417T025104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T025106_20210417T025114_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T025741_20210417T030657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T030725_20210417T031039_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T032646_20210417T033149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033224_20210417T033229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033231_20210417T033239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033241_20210417T033416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033418_20210417T033419_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033422_20210417T033558_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033600_20210417T033603_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033605_20210417T033744_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T033913_20210417T034022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T041130_20210417T041251_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_18_20210417T13050_20210417T13054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T13054_202101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T130509_20210417T130054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T130057_20210417T130054_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T130057_20210417T131000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T13107_20210417T13100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T13107_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T13107_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14453_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14458_20210417T14459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14458_20210417T14459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14458_20210417T14459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14458_20210417T14459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14459_20210417T14459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14459_20210417T14459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T14459_20210417T145100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T146503_20210417T150001_D001 Loss of echo The tracki		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T13024_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T13080_20210417T13094B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T13080_20210417T13100B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T131080_20210417T131040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T131051_20210417T131040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T131051_20210417T131040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T134319_20210417T135120_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144319_20210417T135120_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144388_20210417T149712_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144388_20210417T14439_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144382_20210417T14439_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144352_20210417T144450_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144632_20210417T144540_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144632_20210417T144540_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144632_20210417T144540_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T146503_20210417T150002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T15003_20210417T150002_0001 Loss of echo The tracking e			
CS_OFFL_SIR_LRM_18_20210417T130513_20210417T130547_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131023_20210417T130948_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131023_20210417T131020_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131023_20210417T131102_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131107_20210417T131100_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T1341107_20210417T133110_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T134913_20210417T1340712_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144058_20210417T1460712_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144302_20210417T144050_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144302_20210417T144450_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144658_20210417T144460_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144658_20210417T144610_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144658_20210417T145100_001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T154053_20104417T159073_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T151903_20210417T1519073_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T151903_20210417T151900_0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T151903_20210417T152000_0010 Loss of echo The tracking echo is m			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210417T130800_20210417T130906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T1310957_20210417T131004_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131015_20210417T131104_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131107_20210417T131104_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T131107_20210417T13158112_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T140458_20210417T140712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144158_20210417T140712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144158_20210417T144284_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144632_20210417T14469_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144632_20210417T14469_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144682_20210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T144682_20210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T150832_20210417T150832_200101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T1518032_20210417T151802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T151803_20210417T151802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T151903_20210417T152005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 Loss of echo The t			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T130957_20210417T13102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T13102_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T131107_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T140417_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T140458_20210417T1400101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T140458_20210417T1420011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T140458_20210417T1420011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144153_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144653_20210417T14463_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144633_20210417T14460_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144633_20210417T14460_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144633_20210417T14510_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T150531_20210417T151902_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T1519083_20210417T151902_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151908_20210417T151905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151908_20210417T151905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152005_D001 Loss of echo The tracking echo is mis	CS_OFFL_SIR_LRM_1B_20210417T130513_20210417T130547_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T13102_20210417T131049_D001 CS_OFFL_SIR_LRM_1B_20210417T131107_20210417T131104_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T131107_20210417T131102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T1431312_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T140458_20210417T14312_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144302_20210417T144269_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144302_20210417T14450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14450_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T15030_20210417T14510_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T150303_20210417T15102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151003_20210417T151005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151005_202_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151005_202_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL	CS_OFFL_SIR_LRM_1B_20210417T130809_20210417T130946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T131107_20210417T131107_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T134319_20210417T135812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14358_20210417T140712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14358_20210417T142849_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14358_20210417T144284_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14455_20210417T144629_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14463_20210417T144640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14465_20210417T14460_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14468_20210417T14460_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14465_20210417T14610_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T115053_20010417T145072_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T15053_20210417T150723_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T15080_20210417T151927_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151900_20210417T151955_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151900_20210417T152005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 Lo	CS_OFFL_SIR_LRM_1B_20210417T130957_20210417T131020_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T131107_20210417T131120_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14338_20210417T142849_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14338_20210417T142849_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14338_20210417T142849_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144155_20210417T144629_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14463_20010417T144629_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14463_20010417T144640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T14463_20210417T14416_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T14410_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T150021_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T15033_20210417T15002_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152003_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152003_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152003_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152003_D001 Loss of echo The tra	CS_OFFL_SIR_LRM_1B_20210417T131023_20210417T131049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210417T143319_20210417T1435812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T143582_0210417T14453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T144358_20210417T14453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T144631_20210417T14463_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T144631_20210417T14463_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T144658_20210417T144676_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T144658_20210417T144676_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T144718_20210417T14510_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T15031_20210417T14510_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T151033_20210417T15102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T151003_20210417T151002_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T151008_20210417T151005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T151005_20210417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T152008_20210417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T152003_20210417T152008_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210417T152003_20210417T152008_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_20210417T131051_20210417T131104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T140458_20210417T14249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T143028_20210417T144153_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144153_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144631_20210417T144640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144631_20210417T144640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144688_D0210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T144688_D0210417T144716_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T150531_20210417T151023_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151033_20210417T151023_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151033_20210417T1510201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151030_20210417T151001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151095_20210417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152003_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152013_02010417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152013_02010417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152013_02010417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152013_02010417T152013_D001 Loss of echo The tra	CS_OFFL_SIR_LRM_1B_20210417T131107_20210417T131120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210417T143028_20210417T142849_D001 CS_OFFL_SIR_LRM_18_20210417T143028_20210417T1444153_D001 CS_OFFL_SIR_LRM_18_20210417T144155_20210417T144629_D001 CS_OFFL_SIR_LRM_18_20210417T144651_20210417T144640_D001 CS_OFFL_SIR_LRM_18_20210417T144651_20210417T144640_D001 CS_OFFL_SIR_LRM_18_20210417T144658_20210417T144640_D001 CS_OFFL_SIR_LRM_18_20210417T144718_20210417T144716_D001 CS_OFFL_SIR_LRM_18_20210417T144718_20210417T144716_D001 CS_OFFL_SIR_LRM_18_20210417T150531_20210417T145110_D001 CS_OFFL_SIR_LRM_18_20210417T150531_20210417T150723_D001 CS_OFFL_SIR_LRM_18_20210417T150838_20210417T151802_D001 CS_OFFL_SIR_LRM_18_20210417T151806_20210417T151927_D001 CS_OFFL_SIR_LRM_18_20210417T151903_20210417T151955_D001 CS_OFFL_SIR_LRM_18_20210417T151903_20210417T151955_D001 CS_OFFL_SIR_LRM_18_20210417T151903_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T151905_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_18_20210417T152013_20210417T152028_D001 CS_OFFL_SIR_LRM_18_20210417T152013_20210417T152028_D001 CS_OFFL_SIR_LRM_18_20210417T152013_20210417T152028_D001 CS_OFFL_SIR_LRM_18_20210417T152013_20210417T162212_D001 CS_OFFL_SIR_LRM_18_20210417T162321_20210417T162212_D001 CS_OFFL_SIR_LRM_18_20210417T162321_20210417T162242_D001 CS_OFFL_SIR_LRM_18_20210417T162242_2010417T162242_D001 CS_OFFL_SIR_LRM_18_20210417T162242_2010417T162242_D001 CS_OFFL_SIR_LRM_18_20210417T162242_2010417T162242_D001 CS_OFFL_SIR_LRM_18_20210417T16242_2010417T16242_201041	CS_OFFL_SIR_LRM_1B_20210417T134319_20210417T135812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T143028_20210417T14453_D001 CS_OFFL_SIR_LRM_1B_20210417T144155_20210417T144629_D001 CS_OFFL_SIR_LRM_1B_20210417T14455_20210417T14460_D001 CS_OFFL_SIR_LRM_1B_20210417T144658_20210417T14460_D001 CS_OFFL_SIR_LRM_1B_20210417T144668_20210417T14476_D001 CS_OFFL_SIR_LRM_1B_20210417T14478_20210417T144716_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T145110_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T145110_D001 CS_OFFL_SIR_LRM_1B_20210417T150531_20210417T150723_D001 CS_OFFL_SIR_LRM_1B_20210417T150838_20210417T151802_D001 CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T151927_D001 CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T151927_D001 CS_OFFL_SIR_LRM_1B_20210417T151930_20210417T151955_D001 CS_OFFL_SIR_LRM_1B_20210417T15197_20210417T152001_D001 CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152005_D001 CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152010_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152010_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152010_D001 CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162410_D001 C	CS_OFFL_SIR_LRM_1B_20210417T140458_20210417T140712_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T14463_20210417T144640_D001 CS_OFFL_SIR_LRM_1B_20210417T144631_20210417T144640_D001 CS_OFFL_SIR_LRM_1B_20210417T144668_20210417T144716_D001 CS_OFFL_SIR_LRM_1B_20210417T144668_20210417T144716_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T145110_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T150723_D001 CS_OFFL_SIR_LRM_1B_20210417T150531_20210417T150723_D001 CS_OFFL_SIR_LRM_1B_20210417T150838_20210417T1518002_D001 CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T151927_D001 CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T151927_D001 CS_OFFL_SIR_LRM_1B_20210417T151930_20210417T151955_D001 CS_OFFL_SIR_LRM_1B_20210417T151930_20210417T151955_D001 CS_OFFL_SIR_LRM_1B_20210417T151930_20210417T151955_D001 CS_OFFL_SIR_LRM_1B_20210417T151957_20210417T152001_D001 CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 CS_OFFL_SIR_LRM_1B_20210417T152003_20210417T152009_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162212_D001 CS_OFFL_SIR_LRM_1B_20210417T162212_D001 CS_OFFL_SIR_LRM_1B_20210417T162424_20210417T162422_D001 CS_OFFL_SIR_LRM_1B_20210417T162424_20210417T162440_D001 CS_OFFL_SIR_LRM_1B_20210417T162440_D001 CS_OFFL_SIR_LRM_1B_00210417T162440_D001 CS_OFFL_SIR_LRM_1B_00210417T162440_D001 CS_OFFL_SIR_LRM_1B_00210417T162440_D001	CS_OFFL_SIR_LRM_1B_20210417T141358_20210417T142849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T144631_20210417T144640_D001 CS_OFFL_SIR_LRM_1B_20210417T144685_20210417T144716_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T145110_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T150723_D001 CS_OFFL_SIR_LRM_1B_20210417T150838_20210417T151802_D001 CS_OFFL_SIR_LRM_1B_20210417T151808_20210417T151802_D001 CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T151925_D001 CS_OFFL_SIR_LRM_1B_20210417T151905_20210417T15195_D001 CS_OFFL_SIR_LRM_1B_20210417T151905_20210417T15195_D001 CS_OFFL_SIR_LRM_1B_20210417T151905_20210417T1519001 CS_OFFL_SIR_LRM_1B_20210417T151905_20210417T1519001 CS_OFFL_SIR_LRM_1B_20210417T151905_20210417T152000_D001 CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152000_D001 CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152000_D001 CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152000_D001 CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152000_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152008_D001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15201001 CS_OFFL_SIR_LRM_1B_20210417T15201001 CS_OFFL_SIR_LRM_1B_00010417T162424_200101 CS_OFFL_SIR_LRM_1B_00010417T162424_2001010117T162440_D001 CS_OFFL_SIR_LRM_1B_00010417T162440_D001 CS_OFFL_SIR_LRM_1B_00010417T162440_D00			
CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T144718_D001 CS_OFFL_SIR_LRM_1B_20210417T144718_20210417T150723_D001 CS_OFFL_SIR_LRM_1B_20210417T150531_20210417T150723_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T150838_20210417T150823_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151808_20010117T151802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T15192T_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151930_20210417T151955_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T151957_20210417T152001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T15208_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T15203_20210417T15208_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162116_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_20210417T144155_20210417T144629_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210417T151806_20210417T151927_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210417T150531_20210417T150723_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210417T152005_20210417T152005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152028_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T154249_20210417T155116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162321_20210417T162422_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	CS_OFFL_SIR_LRM_1B_20210417T151930_20210417T151955_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210417T152013_20210417T152028_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 CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162321_20210417T162422_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_20210417T162424_20210417T162440_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_20210417T152005_20210417T152005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T154249_20210417T155116_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162321_20210417T162422_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	CS_OFFL_SIR_LRM_1B_20210417T152008_20210417T152009_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210417T162321_20210417T162422_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210417T162424_20210417T162440_D001 Loss of echo The tracking echo is missing for one or more records		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T162424_20210417T162440_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210417T162134_20210417T162212_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210417T162321_20210417T162422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T162443_20210417T162443_D001 Loss of echo The tracking echo is missing for one or more records			
	CS_OFFL_SIR_LRM_1B_20210417T162443_20210417T162443_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210417T162446_20210417T163002_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T164210_20210417T164237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T164516_20210417T164953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T165210_20210417T171915_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T173612_20210417T175828_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T175952_20210417T180629_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T180629_20210417T180815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T191130_20210417T193448_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T193453_20210417T194026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T194228_20210417T194329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T194415_20210417T194559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T194755_20210417T194952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T205910_20210417T210303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T210409_20210417T210439_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T210441_20210417T210741_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T210847_20210417T211044_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T211557_20210417T211715_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T212143_20210417T212155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T212205_20210417T212224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T212224_20210417T212242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T212503_20210417T212511_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T214234_20210417T215113_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T224418_20210417T225023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T225159_20210417T225652_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T231851_20210417T231911_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T231914_20210417T232013_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T232015_20210417T232016_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210417T232126_20210417T235442_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

0

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:

0

2

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210417T100921_20210417T101050_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210417T134319_20210417T135812_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

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.

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:

. .

5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors:

58

Number of products with errors: 58		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210417T001249_20210417T001447_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_220210417T002757_20210417T003014_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_220210417T003021_20210417T003724_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_220210417T003726_20210417T003828_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_220210417T010349_20210417T011419_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_220210417T011750_20210417T012642_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_220210417T015710_20210417T020717_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_220210417T020919_20210417T021153_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_220210417T021224_20210417T021644_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_220210417T021752_20210417T022435_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_220210417T025741_20210417T030657_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_220210417T030725_20210417T031039_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_220210417T033231_20210417T033239_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210417T033605_20210417T033744_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210417T034804_20210417T040338_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_220210417T041716_20210417T044419_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_220210417T050940_20210417T051311_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210417T051724_20210417T054308_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_220210417T055628_20210417T062351_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_220210417T065500_20210417T072306_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_220210417T073616_20210417T081052_D001	(Retracker 3), Backscatter Error	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_220210417T082412_20210417T082533_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_220210417T084956_20210417T085339_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_220210417T090430_20210417T090953_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210417T091544_20210417T093758_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_220210417T094044_20210417T094937_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_220210417T100232_20210417T100554_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_220210417T102203_20210417T102820_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_220210417T102842_20210417T104131_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_220210417T105455_20210417T112734_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_220210417T115335_20210417T121632_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_220210417T123456_20210417T124101_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_220210417T124105_20210417T124151_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_220210417T124153_20210417T125018_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_220210417T125050_20210417T125219_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_220210417T125700_20210417T130442_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_220210417T132537_20210417T134105_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_220210417T134319_20210417T135812_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_220210417T141358_20210417T142849_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_220210417T143028_20210417T144153_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_220210417T150531_20210417T150723_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210417T150838_20210417T151802_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_220210417T152457_20210417T153957_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_220210417T155336_20210417T161618_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_220210417T162321_20210417T162422_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210417T165210_20210417T171915_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_220210417T173612_20210417T175828_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_2_20210417T183108_20210417T185758_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_220210417T191130_20210417T193448_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_220210417T193453_20210417T194026_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_220210417T194755_20210417T194952_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_220210417T200245_20210417T203659_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_220210417T214234_20210417T215113_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_220210417T215359_20210417T221618_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_220210417T222922_20210417T224230_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_220210417T224418_20210417T225023_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_220210417T225159_20210417T225652_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_220210417T232126_20210417T235442_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	197	197	197	0	0
SIR_SAR_1B	133	133	133	0	0
SIR_SIN_1B	105	105	105	0	0
SIR_LRM_2	197	197	192	5	0
SIR_SAR_2	105	133	133	0	0
SIR_SIN_2	133	105	103	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

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

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)				
STRUCTURESIZEANDF	STRUCTURE_SIZE_AND_READ	Under investigation.				

6.2 QCC Warnings

Number of QCC reports with warnings

7

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	•	-	-	•	•
SIR_LRM_2_	0	5					
SIR_SIN_2_	2	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:

0