

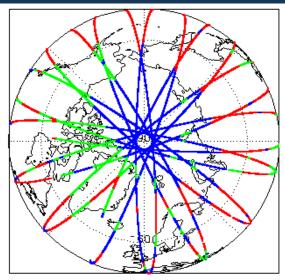
1. Overview

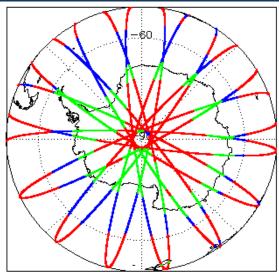
Report Production Date:	05-Jan-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

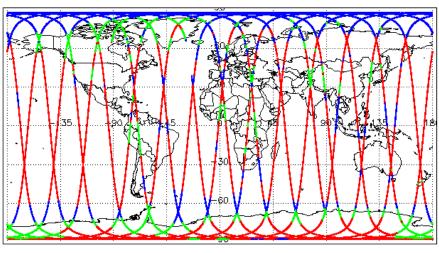
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

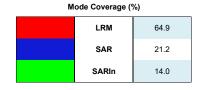
Mission / Instru	Mission / Instrument News			
21-Nov-2020	None			
22-Nov-2020	None			
23-Nov-2020	Nothing planned			

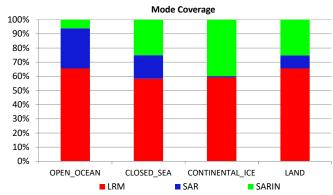
2. Global Coverage

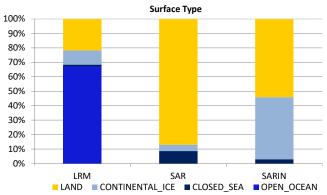












3. Instrument Configuration

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:

0

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:

Λ

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:

Co. OFT. SR. LMI. 18. 20001122T006452 20001122T000645 20001122T006450 1	Product	Test Failed	Description
C8, OFFL SRL LRM, 18, 20211127100459, 20201127109594, D001 Loss of scho	CS_OFFL_SIR_LRM_1B_20201122T000158_20201122T002647_D001	Loss of echo	The tracking echo is missing for one or more records
SS_OFFL_SIR_LEM_18_20001122T005558_20001122T005554_D001 CS_OFFL_SIR_LEM_18_20001122T005558_20001122T005554_D001 CS_OFFL_SIR_LEM_18_20001122T005555_20001122T005554_D001 CS_OFFL_SIR_LEM_18_20001122T005555_20001122T005544_D001 CS_OFFL_SIR_LEM_18_20001122T005555_20001122T005544_D001 CS_OFFL_SIR_LEM_18_20001122T005555_20001122T005644_D001 CS_OFFL_SIR_LEM_18_20001122T005655_20001122T005644_D001 CS_OFFL_SIR_LEM_18_20001122T005655_20001122T005640_D001 CS_OFFL_SIR_LEM_18_20001122T005655_20001122T005640_D001 CS_OFFL_SIR_LEM_18_20001122T005655_20001122T005640_D001 CS_OFFL_SIR_LEM_18_20001122T005655_20001122T005640_D001 CS_OFFL_SIR_LEM_18_20001122T005655_20001122T005640_D001 CS_OFFL_SIR_LEM_18_20001122T00565_20001122T005640_D001 CS_OFFL_SIR_LEM_18_20001122T00565_20001122T00560_D001 CS_OFFL_SIR_LEM_18_20001122T00565_20001122T00560_D001 CS_OFFL_SIR_LEM_18_20001122T00560_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T00560_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T00560_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T00560_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T00560_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T005260_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T005260_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T005260_20001122T005160_D001 CS_OFFL_SIR_LEM_18_20001122T005260_20001122T005460_D001 CS_OFFL_SIR_LEM_18_20001122T005360_20001122T005460_D001 CS_OFFL_SIR_LEM_18_20001122T005460_20001122T005460_D001 CS_O	CS_OFFL_SIR_LRM_1B_20201122T003017_20201122T003450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LINA_18_20201122T005558_20201122T005555_0001 CS_OFFL_SIR_LINA_18_20201122T005558_20201122T005559_0001 CS_OFFL_SIR_LINA_18_20201122T00557_20201122T005541_D001 CS_OFFL_SIR_LINA_18_20201122T00557_20201122T005541_D001 CS_OFFL_SIR_LINA_18_20201122T005557_20201122T005541_D001 CS_OFFL_SIR_LINA_18_20201122T005557_20201122T005541_D001 CS_OFFL_SIR_LINA_18_20201122T005557_20201122T005541_D001 CS_OFFL_SIR_LINA_18_20201122T00555_20201122T005541_D001 CS_OFFL_SIR_LINA_18_20201122T00555_20201122T005545_D001 CS_OFFL_SIR_LINA_18_20201122T00555_20201122T00555_D001 CS_OF	CS_OFFL_SIR_LRM_1B_20201122T004950_20201122T005034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_200112700555_200112700584_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700584_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700584_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700586_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_200112700585_0001 CS_OFFL_SIR_LRM_18_200112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700585_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001012700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001012700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001012700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001012700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001012700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0001012700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_0000112700586_0001 CS_OFFL_SIR_LRM_18_2000112700586_000112700586_0001 CS_OFF	CS_OFFL_SIR_LRM_1B_20201122T005156_20201122T005534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T005852_20201122T00594_D001	CS_OFFL_SIR_LRM_1B_20201122T005536_20201122T005545_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_IB_20201122T005847_20201122T00594_D001	CS_OFFL_SIR_LRM_1B_20201122T005755_20201122T005832_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T005943_20201122T005940_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T005955_20201122T002740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T002733_20201122T002040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T002733_20201122T002040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T002128_20201122T002140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T002128_20201122T002140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0021240_20201122T002140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T003240_20201122T03315_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T033240_20201122T033315_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T033380_20201122T034524_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T033381_20201122T034544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T033481_20201122T034544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T034541_20201122T034544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T033312_20201122T035337_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T035373_20201122T035331_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T035274_20201122T035230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074582_2020102101 Loss of echo Th	CS_OFFL_SIR_LRM_1B_20201122T005835_20201122T005844_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T005955_20201122T020643_0001 CS_OFFL_SIR_LRM_18_20201122T020645_20201122T020645_0001 CS_OFFL_SIR_LRM_18_20201122T020733_20201122T020736_0001 CS_OFFL_SIR_LRM_18_20201122T020733_20201122T020736_0001 CS_OFFL_SIR_LRM_18_20201122T020738_20201122T020736_0001 CS_OFFL_SIR_LRM_18_20201122T020728_00001122T02135_0001 CS_OFFL_SIR_LRM_18_20201122T020240_00001122T02130_0001 CS_OFFL_SIR_LRM_18_20201122T0203240_00001122T02130_0001 CS_OFFL_SIR_LRM_18_20201122T0203240_00001122T0203031_0001 CS_OFFL_SIR_LRM_18_20201122T0203240_00001122T0030315_0001 CS_OFFL_SIR_LRM_18_20201122T0203240_00001122T0030316_0001 CS_OFFL_SIR_LRM_18_20201122T0303052_0001122T0303460_0001 CS_OFFL_SIR_LRM_18_20201122T0303052_00001122T0304640_0001 CS_OFFL_SIR_LRM_18_20201122T0303052_0001122T0303460_0001 CS_OFFL_SIR_LRM_18_20201122T030307_0001 CS_OFFL_SIR_LRM_18_20201122T030307_0001122T030300001 CS_OFFL_SIR_LRM_18_20201122T030307_0001 CS_OFFL_SIR_LRM_18_20201122T030307_0001 CS_OFFL_SIR_LRM_18_20201122T030307_0001 CS_OFFL_SIR_LRM_18_20201122T030307_0001122T030300001 CS_OFFL_SIR_LRM_18_20201122T030300000122T030000001 CS_OFFL_SIR_LRM_18_20201122T0303000000122T0300000001 CS_OFFL_SIR_LRM_18_20201122T0300000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20201122T005847_20201122T005941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T026462_20201122T027285_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T0206462_20201122T0272145_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021262_20201122T02145_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021262_20201122T02145_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021262_20201122T021517_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T023240_20201122T031517_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033305_20201122T033406_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033305_20201122T034524_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033305_20201122T034524_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033037_20201122T035201_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T035201_20201122T035201_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T0352712_20201122T035201_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T035274_20201122T035280_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T035274_20201122T035280_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033426_20201022T035280_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T077285_20201122T035280_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T077745_20201122T077735_0001 Loss of echo The tra	CS_OFFL_SIR_LRM_1B_20201122T005943_20201122T005949_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T002753_20021122T01250001	CS_OFFL_SIR_LRM_1B_20201122T005955_20201122T012516_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T027033_20201122T02126_20201122T02126_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021246_20201122T021240_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021240_20201122T0315T_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T032934_20201122T033935_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033935_20201122T033940_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033935_20201122T033940_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033935_20201122T033940_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033935_20201122T033944_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033937_20201122T033937_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033937_20201122T033937_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033937_20201122T033937_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T032791_20201122T032793_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T032794_20201122T032793_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T032795_20201122T03293_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T03293_2001122T03293_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T03293_2001122T03293_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T032793_2001122T03293_0001 L	CS_OFFL_SIR_LRM_1B_20201122T014128_20201122T020643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T021226_20201122T02140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021246_20201122T02140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T021240_20201122T030315_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_18_20201122T03340_20201122T033400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033935_20201122T033400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T033935_20201122T034544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T034901_20201122T035201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T035037_20201122T035201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T052031_20201122T052030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T052031_20201122T052030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T05279_20201122T052030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T05279_20201122T052749_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T052821_D00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T052822_D00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T05282_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072703_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072707_20201122T072712_D001	CS_OFFL_SIR_LRM_1B_20201122T020646_20201122T020726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T02122_02201122T021517_D001	CS_OFFL_SIR_LRM_1B_20201122T020733_20201122T020940_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T02340_20201122T030315_D001	CS_OFFL_SIR_LRM_1B_20201122T021026_20201122T021153_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201122T033240_20201122T033406_D001	CS_OFFL_SIR_LRM_1B_20201122T021226_20201122T021240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T033935_20201122T034944_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T034941_20201122T0349444_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T034901_20201122T0349444_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T035907_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T035207_20201122T035201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052791_20201122T052030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052791_202011122T052791_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052791_202011122T05291_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052794_20201122T052930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052920_20201122T05230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0763942_20201122T05230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0727950_20201122T072835_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072783_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072795_20201122T072790_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0727714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T07277450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074717_20201122T074652_D001 Loss of echo	CS_OFFL_SIR_LRM_1B_20201122T021240_20201122T021517_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T033935_20201122T034844_D001	CS_OFFL_SIR_LRM_1B_20201122T023240_20201122T030315_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T034811_20201122T035037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T035037_20201122T035201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0352031_20201122T052603_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052749_20201122T052743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052754_20201122T052812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0525230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063759_20201122T05230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063759_20201122T05230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0745526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B	CS_OFFL_SIR_LRM_1B_20201122T032952_20201122T033406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T034901_20201122T035201_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052031_20201122T052603_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052719_20201122T052743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052754_20201122T052812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T052930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T062230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_0201122T072707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072772_D001122T072707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072772_D001122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074563_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20	CS_OFFL_SIR_LRM_1B_20201122T033935_20201122T034524_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T052031_20201122T052603_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052754_20201122T052743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052754_20201122T052812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T052830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T062821_20201122T052830_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063042_20201122T063230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T0633456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072530_20201122T072535_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072655_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0724653_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T0745526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074077_20201122T0730526_D001 Loss of echo The	CS_OFFL_SIR_LRM_1B_20201122T034811_20201122T034844_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T052031_20201122T052743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052754_20201122T052812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T052930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T052930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063042_20201122T062230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072655_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T07274450_20201122T072755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T0740552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T0740707_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T0740552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T074552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T074051_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	CS_OFFL_SIR_LRM_1B_20201122T034901_20201122T035037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T052719_20201122T052743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T052821_20201122T052930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T063042_20201122T062230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T063042_20201122T062330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T063042_20201122T063456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072639_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072655_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072707_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072707_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T074450_20201122T077450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T074450_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T074707_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T0704707_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T080450_20201122T093031_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T080450_20201122T090501_D001 Loss of echo The tra	CS_OFFL_SIR_LRM_1B_20201122T035037_20201122T035201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201122T052754_20201122T052812_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T061759_20201122T06230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T063042_20201122T063456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072639_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072655_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T074653_20201122T0740588_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T07471_20201122T07526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T090450_20201122T0905515_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201122T090504_20201122T0905515_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T052031_20201122T052603_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T062230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T063042_20201122T063456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072730_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_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T052719_20201122T052743_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T061759_20201122T062230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_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_20201122T074450_20201122T074551_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_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_20201122T074711_20201122T083310_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 t	CS_OFFL_SIR_LRM_1B_20201122T052754_20201122T052812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T063042_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072652_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072705_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_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_20201122T090504_20201122T090515_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_20201122T090504_20201122T090515_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T052821_20201122T052930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072705_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T093310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_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_20201122T090450_20201122T090501_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_20201122T061759_20201122T062230_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_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_20201122T090504_20201122T090501_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_20201122T090504_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T063042_20201122T063456_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T072655_20201122T072703_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_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_20201122T090504_20201122T090515_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T072550_20201122T072635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_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_20201122T090504_20201122T090515_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T072639_20201122T072652_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T072714_20201122T072750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_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	CS_OFFL_SIR_LRM_1B_20201122T072655_20201122T072703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T074450_20201122T074651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_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_20201122T090504_20201122T090515_D001	CS_OFFL_SIR_LRM_1B_20201122T072707_20201122T072712_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T074653_20201122T074658_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_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_20201122T072714_20201122T072750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T074707_20201122T074707_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_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_20201122T074450_20201122T074651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_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_20201122T074653_20201122T074658_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_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_20201122T074707_20201122T074707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T074711_20201122T075526_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T082047_20201122T083310_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201122T090450_20201122T090501_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090517_20201122T090547_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201122T090504_20201122T090515_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201122T090517_20201122T090547_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201122T090549_20201122T090554_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090558_20201122T090606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090608_20201122T090610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090619_20201122T090738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090741_20201122T090755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090801_20201122T090804_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090807_20201122T090811_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090819_20201122T090824_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090828_20201122T090845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090848_20201122T090910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T090913_20201122T091033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T091440_20201122T092410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T092613_20201122T093327_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T100256_20201122T100551_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T100553_20201122T100611_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T100613_20201122T100634_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T100638_20201122T100639_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T100642_20201122T100701_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T100706_20201122T100718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T101438_20201122T102252_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T102422_20201122T102735_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T102858_20201122T103041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104333_20201122T104755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104759_20201122T104836_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104839_20201122T104849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104921_20201122T104928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104930_20201122T104935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104937_20201122T104941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104943_20201122T104954_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T104956_20201122T105007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T105013_20201122T105258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T105302_20201122T105307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T105311_20201122T105331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T105333_20201122T105418_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T105611_20201122T105714_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T112826_20201122T112950_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T113505_20201122T120128_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T120146_20201122T120856_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T122319_20201122T122612_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T122627_20201122T123014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T123017_20201122T123019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T123409_20201122T125848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T134244_20201122T134319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T134350_20201122T134528_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T140333_20201122T140914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T140926_20201122T141151_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T141154_20201122T143755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T144624_20201122T144956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T154014_20201122T154301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T154443_20201122T154624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T154657_20201122T154826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T155230_20201122T155346_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T155529_20201122T160021_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T160108_20201122T160527_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T160649_20201122T161034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T162125_20201122T162648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T172605_20201122T172818_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T173015_20201122T173537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T180055_20201122T180548_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T181251_20201122T181807_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T181816_20201122T184521_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T184523_20201122T184534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T184536_20201122T184701_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T184703_20201122T184705_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201122T184707_20201122T184737_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T184739_20201122T184905_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20201122T195231 20201122T195758 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T195839_20201122T195948_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T195950_20201122T200917_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T201357_20201122T202124_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202212_20201122T202301_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20201122T202304 20201122T202309 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202312_20201122T202323_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202325_20201122T202345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202347_20201122T202400_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202404_20201122T202406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202408_20201122T202423_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202426_20201122T202431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202433_20201122T202455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202458_20201122T202505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202510_20201122T202521_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202530_20201122T202648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202658_20201122T202722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202726_20201122T202746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202749_20201122T202759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202802_20201122T202817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T202819_20201122T202826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T210011_20201122T211512_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T212152_20201122T212408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T213118_20201122T214546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T214726_20201122T214955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T214958_20201122T220221_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T220225_20201122T220233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T220235_20201122T220302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T220304_20201122T220321_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T220357_20201122T220400_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T220402_20201122T220814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T222109_20201122T223126_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223249_20201122T223514_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223601_20201122T223623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223625_20201122T223628_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223632_20201122T223645_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223649_20201122T223651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223654_20201122T223723_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T223727_20201122T223730_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T225942_20201122T230813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T233825_20201122T233907_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20201122T234019 20201122T234112 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201122T234119_20201122T234139_D001	Loss of echo	The tracking echo is missing for one or more records
	1	1 ,

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:

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.

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.

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.

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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201122T000158_20201122T002647_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_2_20201122T005955_20201122T012516_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_220201122T014128_20201122T020643_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_20201122T021622_20201122T021825_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_220201122T023240_20201122T030315_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_220201122T033935_20201122T034524_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_220201122T041030_20201122T044330_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_220201122T050124_20201122T051716_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_220201122T052031_20201122T052603_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_220201122T054832_20201122T061750_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_220201122T061759_20201122T062230_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_220201122T063949_20201122T070423_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_220201122T072752_20201122T073119_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_220201122T073209_20201122T074010_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_220201122T074450_20201122T074651_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_220201122T074711_20201122T075526_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_220201122T075642_20201122T080151_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_220201122T082047_20201122T083310_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_220201122T083457_20201122T084339_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_220201122T084506_20201122T085211_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_220201122T091440_20201122T092410_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_220201122T092613_20201122T093327_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_220201122T095648_20201122T100003_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_220201122T100642_20201122T100701_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201122T100805_20201122T100836_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201122T101438_20201122T102252_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_220201122T102422_20201122T102735_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_220201122T110442_20201122T111937_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_220201122T113505_20201122T120128_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_220201122T123409_20201122T125848_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_220201122T131445_20201122T134048_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_220201122T134244_20201122T134319_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_220201122T134350_20201122T134528_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_220201122T141154_20201122T143755_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_220201122T145519_20201122T152745_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_220201122T154014_20201122T154301_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_220201122T160649_20201122T161034_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_220201122T162125_20201122T162648_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201122T163346_20201122T165455_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_220201122T165741_20201122T170825_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_220201122T173857_20201122T174347_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_220201122T174535_20201122T175543_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_220201122T181251_20201122T181807_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_220201122T181816_20201122T184521_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_220201122T184536_20201122T184701_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_220201122T190525_20201122T190857_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_220201122T191028_20201122T193326_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_220201122T195231_20201122T195758_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_220201122T195950_20201122T200917_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_220201122T201357_20201122T202124_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_220201122T204229_20201122T204839_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_220201122T204941_20201122T205757_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_220201122T210011_20201122T211512_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_220201122T213118_20201122T214546_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_220201122T214726_20201122T214955_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_220201122T214958_20201122T220221_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_220201122T222109_20201122T223126_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_220201122T223249_20201122T223514_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_220201122T224130_20201122T225559_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_220201122T231118_20201122T233315_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	217	217	217	0	0
SIR_SAR_1B	120	120	120	0	0
SIR_SIN_1B	106	106	106	0	0
SIR_LRM_2	213	213	210	3	0
SIR_SAR_2	106	119	119	0	0
SIR_SIN_2	119	106	104	2	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	STRUCTURESIZ EANDREAD	•	•	
SIR_GDR_2_	15	15	15	15	15	15	15	15			
0											

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

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_GDR_2_	0	1					
SIR LRM 2	0	3					

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

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name
CS_OFFL_SIR_GDR_2_20201122T232741_20201123T010656_D002