

09/07/2021



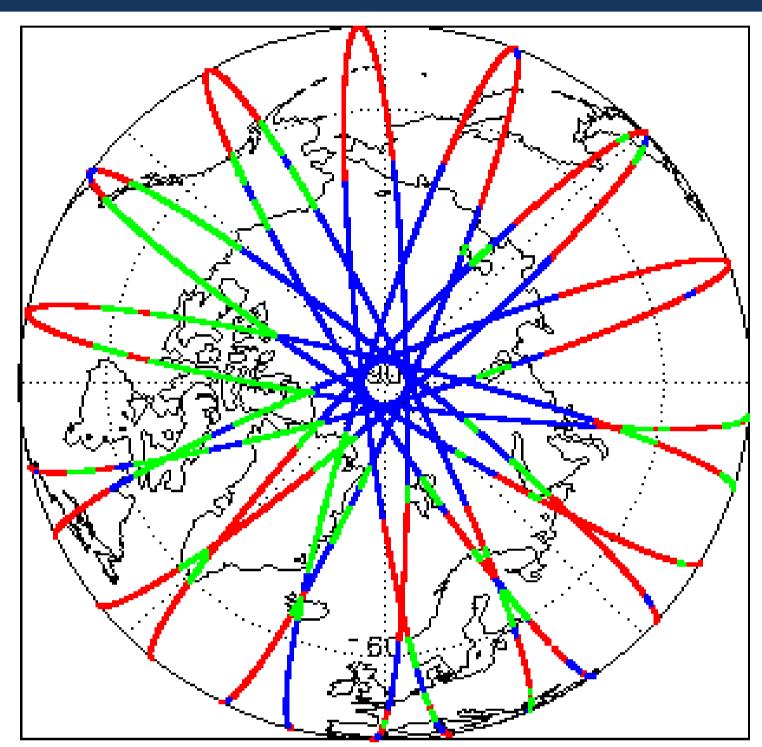
1. Overview

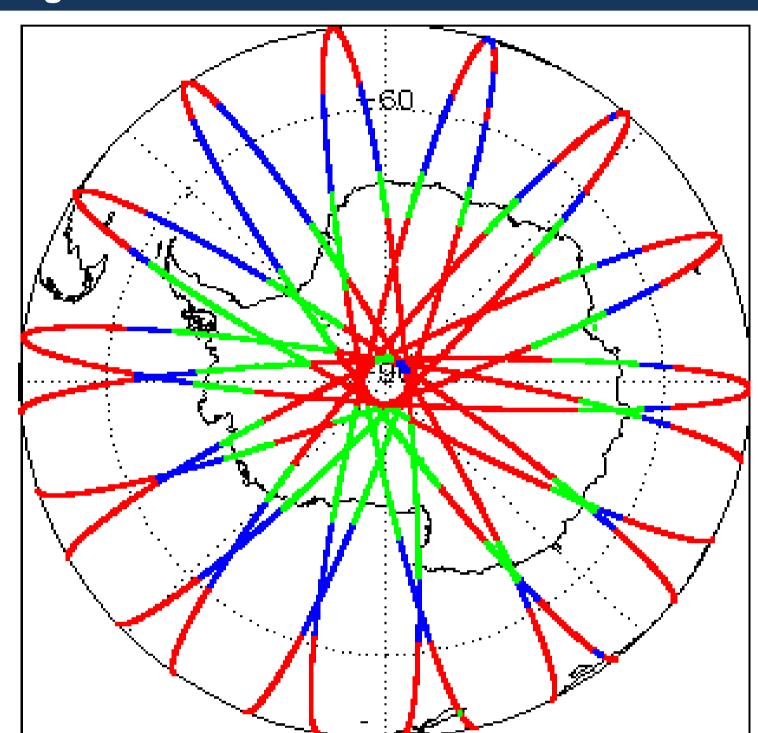
Report Production Date:	10-Aug-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

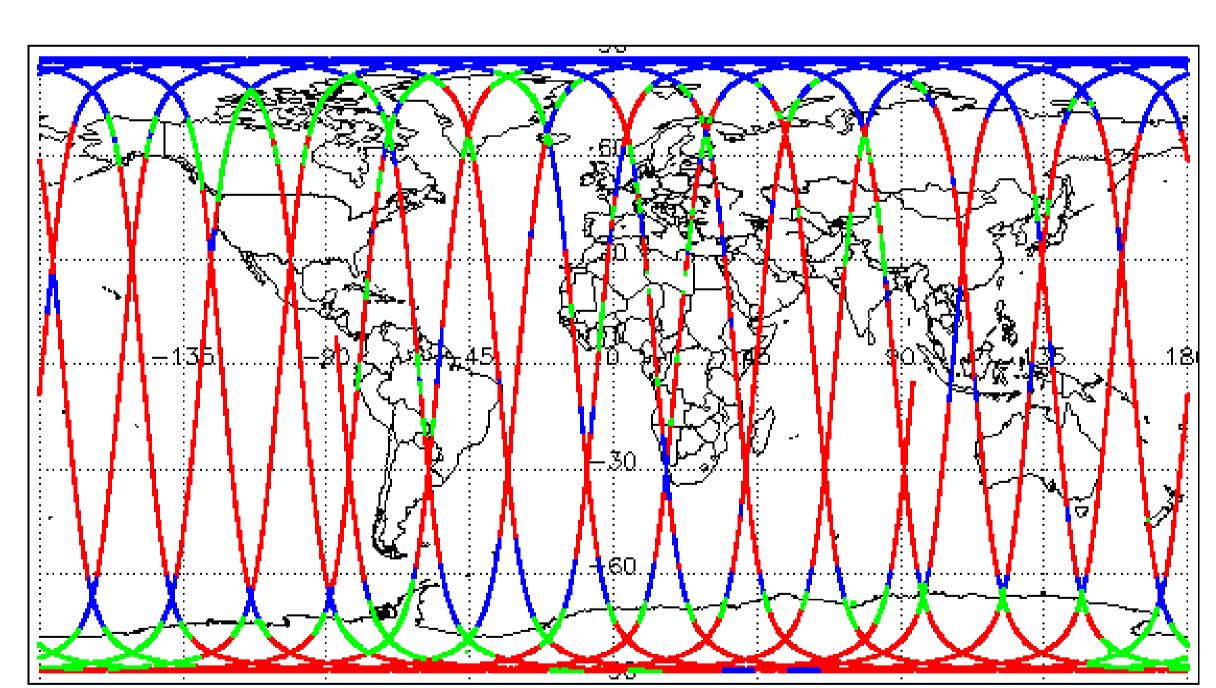
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

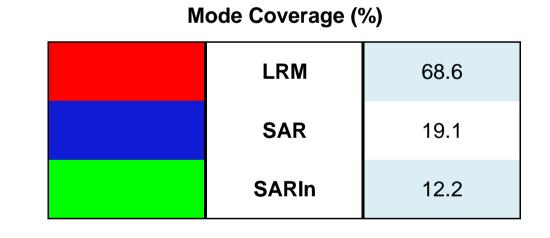
Mission / Instru	ission / Instrument News				
08-Jul-2021	None				
09-Jul-2021	None				
10-Jul-2021	Nothing planned				

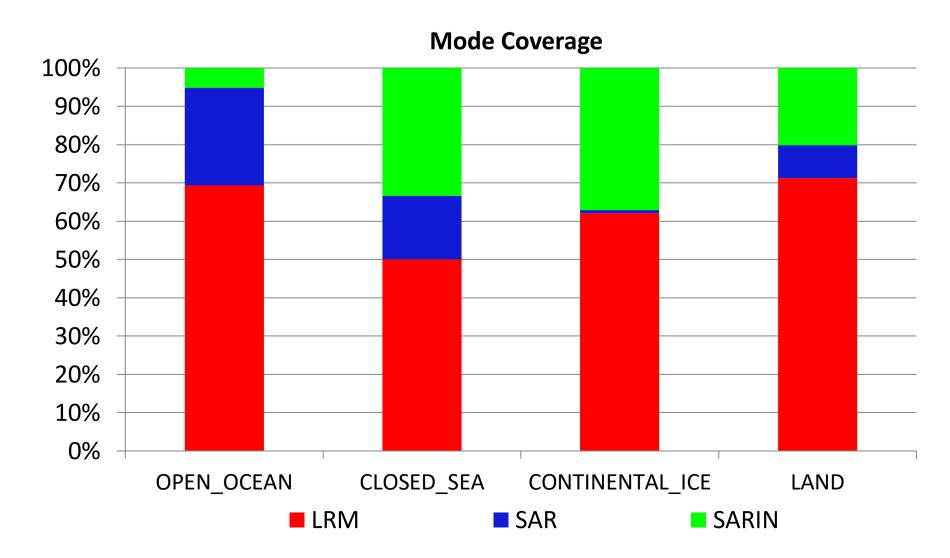
2. Global Coverage

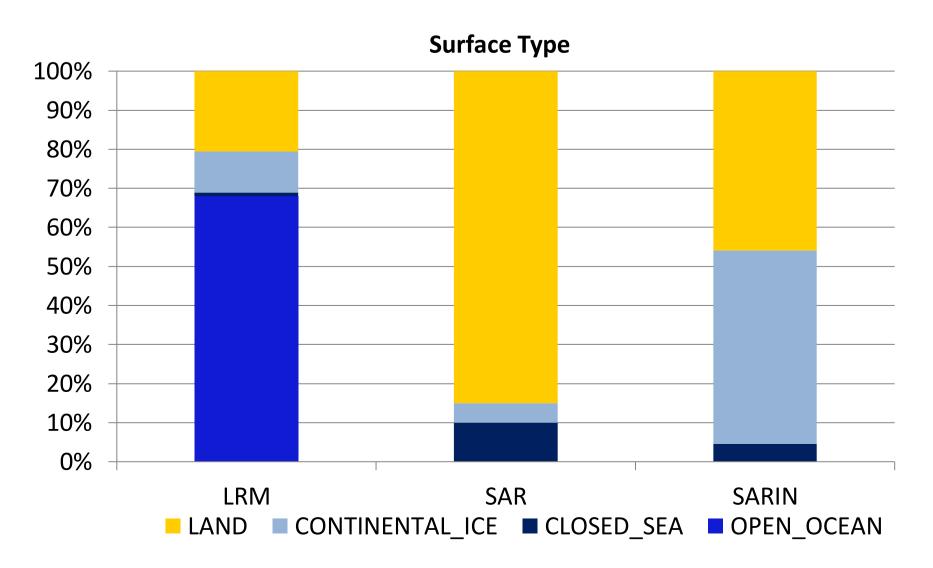












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

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

Number of products with errors:

4.3 Star Tracker Usage Check

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

Number of products with errors: 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.

80

Number of products with errors:

CS_OFF_US_R_LEA_1_2_Z200707010022_Z20170707010032_D010 Loss of exhance The tracking exhance missing for one more seconds	Product	Test Failed	Description
CS OFFL SR LIMI 13 202109907011929 202109907011925 D001 Loss of exho The tracking certor in missing for one misses records CS OFFL SR LIMI 13 202109907012023 20210990702253 D001 Loss of exho The tracking certor in missing for one misses records CS OFFL SR LIMI 13 20210907012023 20210990702253 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907012023 20210990702253 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907012023 202109070120253 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014923 20210907014925 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014923 202109070144925 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014493 202109070144925 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014493 202109070144925 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014493 202109070144925 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014493 20210907014493 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014493 20210907014493 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907014493 20210907014493 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 2021090701493 20210907015900 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907015900 20220 2001016900 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907015900 20220 2001016900 D001 Loss of exho The tracking certor in missing for one or more records CS OFFL SR LIMI 13 20210907015900 20220 D001 Loss of exho The tracking certor in miss	CS_OFFL_SIR_LRM_1B_20210709T002306_20210709T002452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LAN_1B_202107091012945_00210709101323_D001 CS_OFF_SR_LAN_1B_202107091012925_00210709101333_D001 CS_OFF_SR_LAN_1B_2021070910295_0021070910295_0021091001001 CS_OFF_SR_LAN_1B_2021070910295_0021070910295_00210910295_00210910295_00210910295_002109910295_002	CS_OFFL_SIR_LRM_1B_20210709T003002_20210709T010339_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LAN_IB_20210797050228_20210797070228_20210000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20210709T011813_20210709T011923_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 19 2021070F102032 2021070F102032 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102032 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F1020F102051 DOIS OS OFFL SIR LRM 19 2021070F102053 DOIS F	CS_OFFL_SIR_LRM_1B_20210709T012046_20210709T012521_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20210798102878 202107901003337 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798103428 20210798104254 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798104392 20210798104254 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798104393 202107981044254 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798104493 202107981044254 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798104439 20210798104425 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798104439 20210798104442 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798104439 2021079810450 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810450 2021079810500 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810503 2021079810500 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810523 20210798105042 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810523 2021079810524 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810523 2021079810524 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810523 2021079810523 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 2021079810533 20210798107523 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798107533 20210798107533 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM 18 20210798107533 20210798107533 D001 Loss of etho The tracking echo is missing for one or more records CS OFFL SIR LRM	CS_OFFL_SIR_LRM_1B_20210709T012928_20210709T015331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LEM_18_20210796700425_20210708704272_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709704352_20210708704272_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709704425_20210708704429_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709704425_20210709704429_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709704425_20210709704429_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709704557_20210709705001_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709705052_2021070970500001_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709705052_202107097050300_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709705053_202107097050300_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709705053_202107097050300_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709705023_202107097050300_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709700023_2021070970020_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709707045_202107097002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709707045_202107097002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709707045_202107097002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709707045_202107097002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LEM_18_20210709707093_202107090020300_0001 Loss of echo The tracking echo is missing	CS_OFFL_SIR_LRM_1B_20210709T020206_20210709T020531_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_18_20210700T04583_20210700T049722_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T04583_20210700T04251_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T044553_20210700T044251_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T044551_20210700T044627_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T045011_20210700T046027_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T045011_20210700T046027_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T050330_20210700T046000_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T050330_20210700T04000_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T050332_20210700T04000_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T050332_20210700T04000_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210T00T050332_20210700T030300_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T05223_20210700T030300_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T0707222_20210700T0703300_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T070323_20010700T0703300_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T070333_20010700T070333_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T0333_20010700T0333_D001 Loss of echo The teaching echo is missing for one or more records CS_OFFL_SIR_LEM_18_20210700T0333_20010700T0333_D001 Loss of echo The	CS_OFFL_SIR_LRM_1B_20210709T025709_20210709T030337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_IB_20210709T043949_20210709T044251_D001	CS_OFFL_SIR_LRM_1B_20210709T030428_20210709T032748_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM. 18 20210709T044253 20210709T044254 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T044255 20210709T044351 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T044251 20210709T0464351 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T045027 20210709T06001 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T056027 20210709T06001 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T060227 20210709T06002 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T06223 20210709T060242 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T06223 20210709T06242 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T06232 20210709T06242 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T06230 20210709T06245 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T06230 20210709T0623 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T07045 20210709T07023 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T071228 20210709T07033 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T071228 20210709T07023 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T07033 20210709T070325 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T07033 20210709T090325 D001 Loss of echo The tracking echo is missing for one or more records CS OFFL SIR LRM. 18 20210709T09030 20210709T09035 D001 Loss of	CS_OFFL_SIR_LRM_1B_20210709T043632_20210709T043722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210709T0445S_20210709T0445S_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0445S_20210709T0445S_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T045SS7_20210709T050001_Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T050030_20210709T050006_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0505223_20210709T050402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0505223_20210709T050402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0505232_20210709T050402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062523_20210709T050405_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062523_20210709T07045_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062523_20210709T70425_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T0704525_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T0704525_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0704523_20210709T0704535_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T089743_202210709T089393_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T089743_20210709T089393_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T089745_20201 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T089745_20201 Loss of echo The tracking echo is missing	CS_OFFL_SIR_LRM_1B_20210709T043949_20210709T044251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210798T04451_20210798T04559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T045937_20210798T045901_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T065937_20210798T069010_E001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T065232_20210798T069492_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T065232_20210798T069492_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T065232_20210798T06242_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T065232_20210798T062342_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T065250_20210798T062345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T06739_20210798T069316_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T07745_20210798T07039_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T07745_20210798T07333_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T071232_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T071232_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T063343_20210798T07449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T063343_20210798T064358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T063343_20210798T064358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210798T063343_20210798T064358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_L	CS_OFFL_SIR_LRM_1B_20210709T044253_20210709T044254_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20210709T045011 20210709T04508 D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T050030_20210709T050308_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T050232_20210709T060402_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T062232_20210709T060402_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T062232_20210709T062242_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T062232_20210709T0622435_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T062523_20210709T060250_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T070029_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T070292_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T070292_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T070292_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T07045_20210709T070333_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T0703233_20210709T070333_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T09334_20210709T0933937_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T090337_20210709T09335_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T090337_20210709T091325_D001 Loss of echa The tracking echa is missing for one or mare records CS_OFFL_SIR_LRM_18_20210709T090373_20210709T0913230_D001 Loss of echa The tracking	CS_OFFL_SIR_LRM_1B_20210709T044256_20210709T044334_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM. 18. 20210709T045627 20210709T060011 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T050232 20210709T0602425 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T062133 20210709T062242 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T0622332 20210709T062243 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T062332 20210709T062345 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T062520 20210709T062316 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T0742 20210709T071225 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T0742 20210709T071225 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T071228 20210709T073333 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T073252 20210709T074405 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T083937 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T083937 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T083937 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T083937 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T09337 D00109T0913955 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T09171 20210709T092305 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM. 18. 20210709T09301 20210799T109303 D001 Loss of echo The tracking echo is missing	CS_OFFL_SIR_LRM_1B_20210709T044351_20210709T044427_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20210709T050302 20210709T060402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062323_20210709T060402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062332_20210709T062345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062332_20210709T0623016_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062302_20210709T063016_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T070745 20210709T070202 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0745 20210709T073353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T073523_20210709T073353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T073532_20210709T09039397_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T093393_20210709T0933937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0903938_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0903938_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0903938_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091731_202D079T090385_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091731_202D079T090355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T09173545_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0910934_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T1	CS_OFFL_SIR_LRM_1B_20210709T045011_20210709T045506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210709T05223_20210709T060249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062230_20210709T062249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062230_20210709T0602316_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T062520_20210709T070029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T070745_20210709T0707029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T070745_20210709T071225_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T07323_20210709T073333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T07323_20210709T073333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T089374_20210709T0903939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T089238_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090337_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090371_20210709T0913136_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090371_20210709T091739_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090555_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090555_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T106267_20210709T10684_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2	CS_OFFL_SIR_LRM_1B_20210709T045527_20210709T050011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T062133_20210709T062435_D001 CS_OFFL_SIR_LRM_1B_20210709T062302_02010709T062016_D001 CS_OFFL_SIR_LRM_1B_20210709T062502_02010709T062016_D001 CS_OFFL_SIR_LRM_1B_20210709T062502_02010709T0700209_D001 CS_OFFL_SIR_LRM_1B_20210709T06270795_02010709T070029_D001 CS_OFFL_SIR_LRM_1B_20210709T07057095707975_02010709T070029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T071228_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T071228_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0735032_0210709T0740353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T07373503_02010709T074035035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T083743_02010709T0903937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T083743_02010709T09039397_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0903038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0903038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0903737_0210709T0903038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09173172_D0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09173172_D0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0959301 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0959301 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T010627_00010943_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T050030_20210709T050306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T062320_20210709T062435_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T062520_20210709T070229_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T070745_20210709T071225_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T070745_20210709T073355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T073282_20210709T073355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T073352_20210709T073355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T08357_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T085238_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09174_20210709T09305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09174_20210709T09305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T10655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T10655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T106557_20210	CS_OFFL_SIR_LRM_1B_20210709T055223_20210709T060402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T062520_20210709T070353 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T070745_20210709T073535 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T070745_20210709T073353 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T073523_20210709T073406_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T08523_20210709T083937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T08523_20210709T09303937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0930393_20210709T0903939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T093031_20210709T093386_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T093031_20210709T093386_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T093035_20210709T093366_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T0917091709170917091709170917091709170917	CS_OFFL_SIR_LRM_1B_20210709T062133_20210709T062242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T065719_20210709T07029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T071228_20210709T074405_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09323_20210709T074405_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09323_20210709T0903939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09323_20210709T090259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09037_20210709T091736_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09455_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T09435_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105555_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105555_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105503_20210709T105555_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_LR	CS_OFFL_SIR_LRM_1B_20210709T062320_20210709T062435_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T07745_20210709T07122B_0001	CS_OFFL_SIR_LRM_1B_20210709T062520_20210709T063016_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210709T071228_20210709T073353_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T03523_20210709T074405_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T085238_20210709T090259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0903031_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T0903037_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091714_20210709T091356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091731_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091731_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091731_20210709T09305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T09170943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T101627_20210709T10854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T105030_20210709T10655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T105030_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T1126567_20210709T112242_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T111264_20210709T112242_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 tra	CS_OFFL_SIR_LRM_1B_20210709T065719_20210709T070029_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210709T08523_20210709T074405_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T085238_20210709T090259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090301_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T090337_20210709T091356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T091731_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T101627_20210709T101534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T105757_20210709T110374_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T11658_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T1122812_20210709T113243_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210709T1122812_20210709T113243_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_2021	CS_OFFL_SIR_LRM_1B_20210709T070745_20210709T071225_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T083743_20210709T083937_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T085238_20210709T090259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0910537_20210709T091356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T091759_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T0952755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T10544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T10555_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105050_20210709T10574_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T10374_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T1122812_20210709T1122857_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_20210709T071228_20210709T073353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T091356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T0913714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T1010943_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_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T1122857_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	CS_OFFL_SIR_LRM_1B_20210709T073523_20210709T074405_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T090358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T090537_20210709T091356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T10943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_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	CS_OFFL_SIR_LRM_1B_20210709T083743_20210709T083937_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T090537_20210709T091356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091714_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T1105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T1112858_20210709T1112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T1112731_20210709T111224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T1112731_20210709T1112245_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_20210709T1122812_20210709T1122857_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	CS_OFFL_SIR_LRM_1B_20210709T085238_20210709T090259_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T091714_20210709T091729_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_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_20210709T112731_20210709T1122857_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_20210709T1122812_20210709T1122857_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T090301_20210709T090358_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T091731_20210709T092305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T1122812_20210709T113243_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_20210709T1122812_20210709T1122857_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T090537_20210709T091356_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_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_20210709T091714_20210709T091729_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T095901_20210709T100943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_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_20210709T1122812_20210709T113243_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_20210709T1122812_20210709T1122857_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_20210709T091731_20210709T092305_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_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_20210709T112731_20210709T1122857_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_20210709T122812_20210709T122857_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T095455_20210709T095755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_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_20210709T095901_20210709T100943_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T101627_20210709T101854_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T105657_20210709T105724_D001 CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001 CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001 CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_D001 CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_D001 CS_OFFL_SIR_LRM_1B_20210709T122812_20210709T122857_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	CS_OFFL_SIR_LRM_1B_20210709T104207_20210709T105301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_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	CS_OFFL_SIR_LRM_1B_20210709T105303_20210709T105655_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_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_20210709T122812_20210709T122857_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_20210709T105657_20210709T105724_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210709T122812_20210709T122857_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T105757_20210709T110347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T122812_20210709T122857_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T111858_20210709T112212_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210709T112731_20210709T113243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T123508_20210709T123552_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210709T122812_20210709T122857_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210709T123508_20210709T123552_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210709T123554_20210709T123834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T125347_20210709T125447_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T125609_20210709T130651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T130654_20210709T132952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T134545_20210709T140922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T140926_20210709T140951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T140954_20210709T141151_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T141154_20210709T141330_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T141356_20210709T141736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T141736_20210709T142115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T143811_20210709T144044_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T152418_20210709T153809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T153814_20210709T154401_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T154426_20210709T154936_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T155106_20210709T155109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T155112_20210709T155219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T155358_20210709T155456_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T155549_20210709T155717_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T155920_20210709T160009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T171435_20210709T171838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T171902_20210709T172551_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T172734_20210709T173022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T173311_20210709T173351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T180536_20210709T182648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T185557_20210709T190314_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T190400_20210709T190830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T193033_20210709T200553_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T202449_20210709T203719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T210901_20210709T211351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T211353_20210709T211451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T211456_20210709T211513_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T211515_20210709T211520_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T211616_20210709T212810_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T213015_20210709T214505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T220200_20210709T221227_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T221333_20210709T221550_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T221845_20210709T223341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T224750_20210709T225409_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210709T225413_20210709T230125_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210709T210901_20210709T211351_D001	TECNO error. TRK ecno error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

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.

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

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

Number of products with errors:

CS_OFFL_SIR_LRM_2__20210709T070745_20210709T071225_D001

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210708T235811_20210709T001421_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_220210709T003002_20210709T010339_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_220210709T012928_20210709T015331_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_220210709T020913_20210709T023605_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_220210709T023640_20210709T024056_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_220210709T025709_20210709T030337_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_220210709T030428_20210709T032748_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_220210709T034929_20210709T042206_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_220210709T043632_20210709T043722_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_220210709T052828_20210709T054938_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_220210709T055223_20210709T060402_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_220210709T061320_20210709T061758_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_220210709T063348_20210709T063832_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_220210709T064020_20210709T065039_D001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more

Error (Retracker 2)

(Retracker 2)

Height Error (Retracker 2), Height Error

(Retracker 3), Backscatter Error

records

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_220210709T071228_20210709T073353_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220210709T073523_20210709T074405_D001	(Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error
	(Retracker 2) Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220210709T075541_20210709T075602_D001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220210709T075647_20210709T080345_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_220210709T080403_20210709T082808_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_220210709T084706_20210709T085145_D001	1_ 7 1 1	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220210709T085238_20210709T090259_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_220210709T090301_20210709T090358_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_220210709T090537_20210709T091356_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_220210709T091731_20210709T092305_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210709T093659_20210709T095047_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_220210709T095901_20210709T100943_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_220210709T102630_20210709T104027_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_220210709T104207_20210709T105301_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_220210709T105303_20210709T105655_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210709T111623_20210709T111736_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210709T111858_20210709T112212_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_220210709T112217_20210709T112608_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_220210709T112731_20210709T113243_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_220210709T113436_20210709T115029_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_220210709T120611_20210709T122734_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_220210709T124020_20210709T124124_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_220210709T130654_20210709T132952_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_220210709T134545_20210709T140922_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_220210709T141736_20210709T142115_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_220210709T142136_20210709T142246_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_220210709T143811_20210709T144044_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_220210709T144209_20210709T150807_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_220210709T152418_20210709T153809_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_220210709T153814_20210709T154401_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_220210709T154426_20210709T154936_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_220210709T160034_20210709T160200_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_220210709T161400_20210709T164729_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_220210709T170351_20210709T170444_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_220210709T170644_20210709T170940_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_220210709T173723_20210709T174127_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_220210709T175036_20210709T180250_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_220210709T180536_20210709T182648_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_220210709T184406_20210709T185410_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_220210709T185557_20210709T190314_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_220210709T190400_20210709T190830_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_220210709T193033_20210709T200553_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_220210709T202449_20210709T203719_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_220210709T203730_20210709T205500_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_220210709T210901_20210709T211351_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_220210709T211616_20210709T212810_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_220210709T213015_20210709T214505_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_220210709T220200_20210709T221227_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_220210709T221845_20210709T223341_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_220210709T233955_20210710T001224_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	148	148	148	0	0
SIR_SAR_1B	112	112	112	0	0
SIR_SIN_1B	114	114	114	0	0
SIR_LRM_2	148	148	145	3	0
SIR_SAR_2	114	112	112	0	0
SIR_SIN_2	112	114	112	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

1	1	

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

6.2 QCC Warnings

Number of QCC reports with warnings

5

Product Type	AXDME	AXSMMEOCI	-	-	•	-	-
SIR_LRM_2_	0	3					
SIR SIN 2	2	0					

Test Description Key:	t 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: