

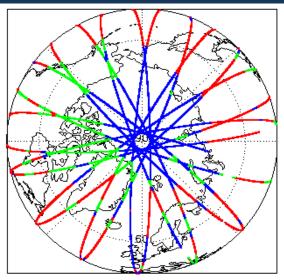
## 1. Overview

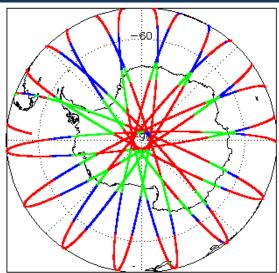
Report Production Date:	04-Dec-2020	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

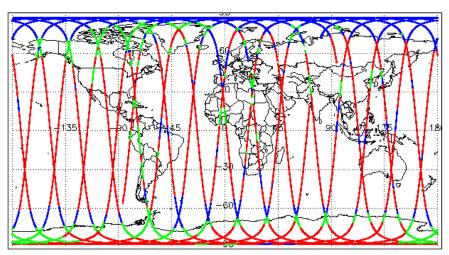
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

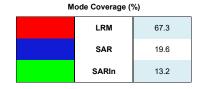
M	Mission / Instrument News					
	04-Nov-2020	None				
-	05-Nov-2020	SIRAL unavailability on the 05/11/2020 13:28:24 to 13:34:01 due to MMFU packet store recovery				
-	06-Nov-2020	Nothing planned				

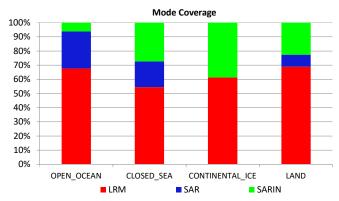
# 2. Global Coverage

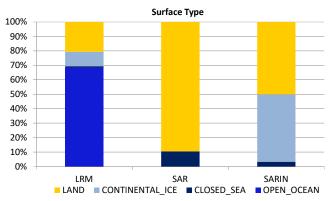












## 3. Instrument Configuration

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:

### 4.2 L1B Product Header Analysis

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

Number of products with errors:

0

### 4.3 Star Tracker Usage Check

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

Number of products with errors:

0

## 4.4 L1B Tracking Flags Check

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

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

umber of products with errors: 15

CS_CFFL_SR_LPM_18_2001105170012502_00011051700218_0001  CS_CFFL_SR_LPM_18_20011051700218_0001  CS_CFFL_SR_LPM_18_20011051700218_0001  CS_CFFL_SR_LPM_18_20011051700218_00011051700218_0001  CS_CFFL_SR_LPM_18_20011051700218_00011051700218_0001  CS_CFFL_SR_LPM_18_20011051700218_00011051700218_0001  CS_CFFL_SR_LPM_18_200110517018012_00011051700218_0001  CS_CFFL_SR_LPM_18_200110517018012_000110517002010_0001  CS_CFFL_SR_LPM_18_200110517018012_00011051700204_0001  CS_CFFL_SR_LPM_18_200110517018012_00011051700204_0001  CS_CFFL_SR_LPM_18_200110517018012_00011051700204_0001  CS_CFFL_SR_LPM_18_200110517018012_00011051700204_0001  CS_CFFL_SR_LPM_18_20011051700204_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_000110517044_0001  CS_CFFL_SR_LPM_18_20011051700204_00011051704400001  CS_CFFL_SR_LPM_18_20011051700204_000110517044000001  CS_CFFL_SR_LPM_18_20011051700204_000110517044000001  CS_CFFL_SR_LPM_18_20011051700204_000110517044000001  CS_CFFL_SR_LPM_18_20011051700204_0001105170440000000000000000000000000000	Product	Test Failed	Description
CS_OFFL_SR_LRM_18_200011057000015_200011057000515_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200011057010507_200011057013255_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105701411_200011057014143_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105701417_20011105700404_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105701417_20001105700005_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105700372_20001105700005_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105700372_20001105700005_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105700372_2000110570005_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105700372_20001105703409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703409_20001105703409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703442_20001105703409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703442_20001105703409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703442_2001105703409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703443_2001105703409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703443_2001105704409_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703443_2001105704490_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20001105703443_2001105704490_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_200011	CS_OFFL_SIR_LRM_1B_20201104T235912_20201105T000505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201105T010507_20201105T010505_D001  CS_OFFL_SIR_LRM_18_20201105T010500_20201105T010505_D001  CS_OFFL_SIR_LRM_18_20201105T010542_20201105T010502_D001  CS_OFFL_SIR_LRM_18_20201105T010542_20201105T010502_D001  CS_OFFL_SIR_LRM_18_20201105T010542_20201105T010502_D001  CS_OFFL_SIR_LRM_18_20201105T010542_20201105T010502_D001  CS_OFFL_SIR_LRM_18_20201105T010542_20201105T003002_D001  CS_OFFL_SIR_LRM_18_20201105T010542_20201105T003002_D001  CS_OFFL_SIR_LRM_18_20201105T003002_20201105T003002_D001  CS_OFFL_SIR_LRM_18_20201105T003402_20201105T003002_D001  CS_OFFL_SIR_LRM_18_20201105T003402_20201105T003002_D001  CS_OFFL_SIR_LRM_18_20201105T003402_20201105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_20201105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_20201105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_20201105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_202001105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_202001105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_202001105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003404_202001105T003402_D001  CS_OFFL_SIR_LRM_18_20201105T003402_D001105T004403_D001  CS_OFFL	CS_OFFL_SIR_LRM_1B_20201105T001930_20201105T003012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T014500_20201105T014054_0001  CS_OFFL_SIR_LRM_1B_20201105T014074_20201105T02006_0001  CS_OFFL_SIR_LRM_1B_20201105T015747_20201105T02006_0001  CS_OFFL_SIR_LRM_1B_20201105T015747_20201105T02006_0001  CS_OFFL_SIR_LRM_1B_20201105T03747_20201105T02006_0001  CS_OFFL_SIR_LRM_1B_20201105T03747_20201105T02006_0001  CS_OFFL_SIR_LRM_1B_20201105T03747_20201105T02006_0001  CS_OFFL_SIR_LRM_1B_20201105T03747_20201105T03056_0001  CS_OFFL_SIR_LRM_1B_20201105T030062_20201105T03036_0001  CS_OFFL_SIR_LRM_1B_20201105T030062_20201105T03036_0001  CS_OFFL_SIR_LRM_1B_20201105T030440_20201105T03340_0001  CS_OFFL_SIR_LRM_1B_20201105T030440_20201105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03440_20201105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03444_20201105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03444_20201105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03444_20201105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03444_0001105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03444_0001105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T03440_0001105T03440_0001  CS_OFFL_SIR_LRM_1B_20201105T04540_0001  CS_OFFL_SIR_LRM_1B_20201105T05440_00001  CS_OFFL_SIR_LRM_1B_202	CS_OFFL_SIR_LRM_1B_20201105T003015_20201105T005218_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20010105T01411_20001105T01432_00011 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T07477-2001105T002044_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T002037_20001105T002044_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T002037_20001105T003042_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004723_20001105T003400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004402_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004402_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004402_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004402_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004400_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004400_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004303_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004303_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004303_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004303_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004303_2001105T004400_0001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20001105T004303_2001105T004303_0001 Loss of exho The tracking exho is missing for one or	CS_OFFL_SIR_LRM_1B_20201105T010807_20201105T013205_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_18_20201105T015542_20201105T015024_D0011 CS_OFF_LSIR_LRM_18_20201105T015747_20201105T02000_D0011 CS_OFF_LSIR_LRM_18_20201105T0205232_20201105T030020_D0011 CS_OFF_LSIR_LRM_18_20201105T0205232_20201105T030020_D0011 CS_OFF_LSIR_LRM_18_20201105T020528_20201105T030302_D0011 CS_OFF_LSIR_LRM_18_20201105T030528_20201105T033030_D0011 CS_OFF_LSIR_LRM_18_20201105T030528_20201105T031303_D0011 CS_OFF_LSIR_LRM_18_20201105T030528_20201105T031303_D0011 CS_OFF_LSIR_LRM_18_20201105T030528_20201105T031303_D0011 CS_OFF_LSIR_LRM_18_20201105T031414_20201105T031401_D0011 CS_OFF_LSIR_LRM_18_20201105T031414_20201105T031401_D0011 CS_OFF_LSIR_LRM_18_20201105T031414_20201105T031401_D0011 CS_OFF_LSIR_LRM_18_20201105T031401_20201105T031402_D0011 CS_OFF_LSIR_LRM_18_20201105T031401_Q001105T031401_D0011 CS_OFF_LSIR_LRM_18_20201105T031401_Q001105T031401_D0011 CS_OFF_LSIR_LRM_18_20201105T0410202_20201105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105T031200_D0011 CS_OFF_LSIR_LRM_18_20201105T04105T031300_D0011 CS_OFF_LSIR_LRM_18_20201105T04105T031300_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T04105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T04105300_202011105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T07040500_20201105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T07040500_20201105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T07040500_20201105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T07040500_20201105T03105_D0011 CS_OFF_LSIR_LRM_18_20201105T0033300_20201105T0310500_D0	CS_OFFL_SIR_LRM_1B_20201105T013600_20201105T014054_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_18_20201105T015747_20201105T020006_0001  CS_OFFL_SIR_LEM_18_20201105T023337_20201105T020342_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T023472_20201105T023405_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03401_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03404_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03409_20201105T03409_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T034501_20201105T03492_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T034501_20201105T03492_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03409_20201105T03492_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03409_20201105T03430_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20201105T03303_20201105T03330_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM	CS_OFFL_SIR_LRM_1B_20201105T014111_20201105T014143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T002037_20201105T003025_0001  CS_OFFL_SIR_LRM_1B_20201105T003027_20200105T003025_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T003028_20201105T003025_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0031404_20201105T0031400_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0031404_20201105T0031400_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T003140_20201105T0031400_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0043410_00201105T0044030_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0043410_00201105T0044030_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0043400_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0043400_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T004300_000105T004300_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0045000_000105T004500_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0045000_000105T004500_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0045000_000105T004500_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0045000_000105T004500_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T003200_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T003300_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T003310_0001  Loss of	CS_OFFL_SIR_LRM_1B_20201105T015542_20201105T015624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SIR_LRM_18_20201105T030628_20201105T031358_0.001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T031401_20201105T031358_0.001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T031414_20201105T031747_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T031414_20201105T031747_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T031414_20201105T031747_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T031414_20201105T031747_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T04340_20201105T04449_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T04533_20201105T04449_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T04533_20201105T04440_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T04533_20201105T045042_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T04533_20201105T045042_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T06333_20201105T06333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T06233_20201105T06333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T077433_D001105T06333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T077433_D001105T06333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T077433_D001105T06333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20201105T073333_D001105T06333_D001  Loss of echo The tracking echo is missin	CS_OFFL_SIR_LRM_1B_20201105T015747_20201105T020006_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201105T031040_20201105T031359_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T031404_20201105T031409_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T031404_20201105T031409_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T031442_20201105T031409_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T043410_20201105T044030_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T043402_20201105T0440310_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T045430_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T045530_20201105T045540_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T045530_20201105T045726_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T045634_20201105T045726_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T063320_20201105T045726_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T076326_20201105T063330_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T076326_20201105T063330_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T077434_20201105T074380_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T07434_20201105T074380_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T08331_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105T083330_20201105T083330_D001 Loss of echo The tracking echo is miss	CS_OFFL_SIR_LRM_1B_20201105T020337_20201105T023044_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202011057031401_202011057031401_D0001  CS_OFFL_SIR_LRM_18_202011057031402_202011057031409_D0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057031402_202011057031409_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057031402_20201105704403_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057044202_20201105704403_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057044202_202011057044510_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057045053_202011057045450_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057045051_2020110570450540_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020110570516342_202011057054925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020110570616342_2020110570634925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020110570616342_2020110570634925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2020110570673634_2020110570634925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105707432_202011057074030_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057073342_202011057074030_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20201105708331_202011057083310_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057083312_202011057083350_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202011057083331_202011057083350_D001  Loss of echo  The tracking echo is missing for one	CS_OFFL_SIR_LRM_1B_20201105T024723_20201105T030625_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T031404_20201105T03140D_D001  CS_OFFL_SIR_LRM_1B_20201105T031414_20201105T031472_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T034310_20201105T034033_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T044310_D0011  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T044320_20201105T044310_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T04533_20201105T045450_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T04533_20201105T04520_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T04524_20201105T045726_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T04524_20201105T045726_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T061834_20201105T045726_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T061834_20201105T064925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T076334_20201105T064325_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T07338_20201105T074338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T074338_20201105T074338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T074338_20201105T08338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083333_20201105T08330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083333_20201105T083350_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_	CS_OFFL_SIR_LRM_1B_20201105T030628_20201105T031359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T031414_20201105T034252_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T044340_20201105T04433_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T044320_20201105T04433_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T04555_20201105T04545_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T04555_20201105T04545_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T04552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T04552_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045642_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T06363_20201105T06492_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T06363_20201105T06492_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T06363_20201105T06432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T074732_20201105T074333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T074733_20201105T074336_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083331_20201105T074336_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083312_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083331_20201105T083302_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T083350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T083350	CS_OFFL_SIR_LRM_1B_20201105T031401_20201105T031401_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201105T031820_20201105T044033_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T04420_20201105T044033_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T04420_20201105T04450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T045350_20201105T045450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T04524_20201105T045726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T04524_20201105T045726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T051363_2020105T054350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T06330_20201105T03330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T063302_0201105T063330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T077240_2001105T072808_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T074334_20201105T074036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T074334_20201105T08330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T083312_20201105T08330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T083312_20201105T08330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T08330_20201105T08330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T08330_20201105T08330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20201105T08330_20201105T08355_D001 Loss of echo The tracking echo is missing for one or more	CS_OFFL_SIR_LRM_1B_20201105T031404_20201105T031409_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T0443410_20201105T044489_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T044202_20201105T044540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045501_20201105T045645_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045501_20201105T045526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045624_20201105T0549526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T066324_20201105T0654926_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T066324_20201105T063330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T063204_20201105T063334_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T0774534_20201105T078380_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T0774534_20201105T078141_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T083121_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083313_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083313_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T083356_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T08358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T08413_20201105T08528_D001 Loss of echo The tracking echo is mi	CS_OFFL_SIR_LRM_1B_20201105T031414_20201105T031747_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T044202_20201105T04450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045503_20201105T045450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045624_20201105T045624_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T045624_20201105T054526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T065432_20201105T065432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T06263_20201105T063313_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T06324_20201105T063343_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T073638_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T073638_20201105T074508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T083105_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083313_20201105T083310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083313_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T083350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T08520_20201105T08558_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201105T08520_20201105T08528_D001 Lo	CS_OFFL_SIR_LRM_1B_20201105T031820_20201105T032052_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T045352_20201105T0456450_D001	CS_OFFL_SIR_LRM_1B_20201105T043410_20201105T044033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T045624_20201105T045624_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T045624_20201105T054925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T063636_20201105T063130_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T063204_20201105T063334_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T071724_20201105T0780334_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T071724_20201105T07280B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T074036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T081141_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083312_2D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083312_2D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083312_2D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083312_2D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T08330_20201105T08330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T083356_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083385_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085282_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094611_20201105T098529_D001  Loss of echo  The tracking echo is missing for one	CS_OFFL_SIR_LRM_1B_20201105T044202_20201105T044819_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201105T045624_20201105T054925_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T063204_20201105T063130_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T063204_20201105T063130_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T0763204_20201105T072308_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T073638_20201105T074036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T07434_20201105T074036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T07434_20201105T083212_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083313_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083331_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083358_20201105T084558_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083238_20201105T08528_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083231_20201105T080746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T0942_20201105T000746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T004132_20201105T000385	CS_OFFL_SIR_LRM_1B_20201105T045353_20201105T045450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201105T061634_20201105T063130_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T063204_20201105T063343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T07724_20201105T072808_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T074634_20201105T074036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T074634_20201105T081141_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083131_20201105T0831212_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T0833125_20201105T083303_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T083303_20201105T083358_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T0835828_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T0853358_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T085231_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201105T090746_D001  Loss of echo  The tracking echo is missing for one	CS_OFFL_SIR_LRM_1B_20201105T045501_20201105T045624_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T062636_20201105T063334_D001	CS_OFFL_SIR_LRM_1B_20201105T045624_20201105T045726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T063204_20201105T072808_D001  CS_OFFL_SIR_LRM_1B_20201105T071724_20201105T072808_D001  CS_OFFL_SIR_LRM_1B_20201105T073638_20201105T074036_D001  CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T074036_D001  CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T083114_D001  CS_OFFL_SIR_LRM_1B_20201105T083131_20201105T083212_D001  CS_OFFL_SIR_LRM_1B_20201105T083215_20201105T083300_D001  CS_OFFL_SIR_LRM_1B_20201105T083215_20201105T083300_D001  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083300_D001  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083300_D001  CS_OFFL_SIR_LRM_1B_20201105T083310_20201105T083305_D001  CS_OFFL_SIR_LRM_1B_20201105T083310_20201105T083356_D001  CS_OFFL_SIR_LRM_1B_20201105T0853300_20201105T083558_D001  CS_OFFL_SIR_LRM_1B_20201105T0850300_20201105T085159_D001  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085228_D001  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085228_D001  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T010146_20201105T011118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T1011120_20201105T011120_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	CS_OFFL_SIR_LRM_1B_20201105T051634_20201105T054925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T071724_20201105T072808_D001  CS_OFFL_SIR_LRM_1B_20201105T073638_20201105T074036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T081141_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083131_20201105T083212_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083215_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T083356_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085399_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T011046_20201105T101118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T101120_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T1011140_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 t	CS_OFFL_SIR_LRM_1B_20201105T062636_20201105T063130_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T073638_20201105T074036_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083131_20201105T083212_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T0833131_20201105T083300_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083300_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083307_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083356_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T084558_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T085282_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085282_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T093746_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T1011046_20201105T101118_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101112_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101114_20201105T101140_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	CS_OFFL_SIR_LRM_1B_20201105T063204_20201105T063343_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T083131_20201105T083212_D001  CS_OFFL_SIR_LRM_1B_20201105T0833131_20201105T083212_D001  CS_OFFL_SIR_LRM_1B_20201105T0833131_20201105T083300_D001  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083307_D001  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083307_D001  CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083307_D001  CS_OFFL_SIR_LRM_1B_20201105T083310_20201105T083356_D001  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T083356_D001  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T085159_D001  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085159_D001  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T090746_D001  CS_OFFL_SIR_LRM_1B_20201105T095201_20201105T090746_D001  CS_OFFL_SIR_LRM_1B_20201105T0952611_20201105T093859_D001  CS_OFFL_SIR_LRM_1B_20201105T090746_D001  CS_OFFL_SIR_LRM_1B_20201105T090746_D001  CS_OFFL_SIR_LRM_1B_20201105T090746_D001  CS_OFFL_SIR_LRM_1B_20201105T09074113_20201105T093859_D001  CS_OFFL_SIR_LRM_1B_20201105T09074113_20201105T0913859_D001  CS_OFFL_SIR_LRM_1B_20201105T09074113_20201105T0911118_D001  CS_OFFL_SIR_LRM_1B_20201105T101144_20201105T101112_D001  CS_OFFL_SIR_LRM_1B_20201105T101112_20201105T101112_D001  CS_OFFL_SIR_LRM_1B_20201105T101112_20201105T101114_D001  CS_OFFL_SIR_LRM_1B_20201105T101114_20201105T101114_D001  CS_OFFL_SIR_LRM_1B_20201105T101	CS_OFFL_SIR_LRM_1B_20201105T071724_20201105T072808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T083131_20201105T083212_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083303_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_20201105T083303_20201105T083307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083310_20201105T083356_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101146_20201105T101118_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_20201105T101120_20201105T101112_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T073638_20201105T074036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T083215_20201105T083300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083330_20201105T08336_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T083356_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101146_20201105T101118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T1011120_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T1011140_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_20201105T101125_20201105T101140_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_20201105T101144_20201105T101120_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T074534_20201105T081141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T083303_20201105T083307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T084558_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101046_20201105T101118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T1011120_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_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_20201105T101144_20201105T101140_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_20201105T101144_20201105T1011203_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T083131_20201105T083212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T083310_20201105T08356_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085039_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085159_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101046_20201105T101118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T1011122_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_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_20201105T101125_20201105T101140_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_20201105T101125_20201105T101140_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T083215_20201105T083300_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T090746_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T093859_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101046_20201105T101118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T101122_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T083358_20201105T084558_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201105T092611_20201105T093859_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	CS_OFFL_SIR_LRM_1B_20201105T085201_20201105T085228_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T094113_20201105T095905_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	CS_OFFL_SIR_LRM_1B_20201105T085231_20201105T090746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T101046_20201105T101118_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T101122_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_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_20201105T092611_20201105T093859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T101120_20201105T101122_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101144_20201105T101203_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_20201105T094113_20201105T095905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201105T101144_20201105T101203_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T101046_20201105T101118_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20201105T101125_20201105T101140_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T101205_20201105T101210_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201105T101144_20201105T101203_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201105T101205_20201105T101210_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201105T101212_20201105T101331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T101335_20201105T101657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T102032_20201105T103004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T103013_20201105T103059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T103238_20201105T104626_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T110618_20201105T110635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T110702_20201105T110910_D001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T110912_20201105T110925_D001	Loss of echo	ů ů
CS_OFFL_SIR_LRM_1B_20201105T112027_20201105T112452_D001  CS_OFFL_SIR_LRM_1B_20201105T112614_20201105T113326_D001		The tracking echo is missing for one or more records
	Loss of echo  Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T114925_20201105T115334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T115337_20201105T115440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T115443_20201105T115455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T115520_20201105T115547_D001  CS_OFFL_SIR_LRM_1B_20201105T115549_20201105T115606_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 20201105T115609 20201105T115619 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T115622_20201105T115819_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_202011051115822_202011051115819_D001  CS_OFFL_SIR_LRM_1B_202011051115822_202011051115838_D001	Loss of echo	
CS_OFFL_SIR_LRM_1B_20201105T120141_20201105T120142_D001	Loss of echo	The tracking echo is missing for one or more records  The tracking echo is missing for one or more records
	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T120144_20201105T120145_D001	Loss of echo	
CS_OFFL_SIR_LRM_1B_20201105T120147_20201105T120149_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T120158_20201105T120159_D001	Loss of echo  Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T120203_20201105T120305_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T123411_20201105T123556_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T124100_20201105T130339_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T130342_20201105T130455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T130457_20201105T131447_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T141311_20201105T141636_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T150932_20201105T151443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151534_20201105T151622_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151624_20201105T151715_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151717_20201105T151718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151720_20201105T151721_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151723_20201105T151728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151731_20201105T151814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T151816_20201105T153857_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T164739_20201105T164829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T165107_20201105T165441_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T165457_20201105T165533_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T170116_20201105T170611_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T170632_20201105T171115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T171141_20201105T171412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T172714_20201105T173233_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T183239_20201105T183349_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T183357_20201105T183417_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T183426_20201105T183540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T183625_20201105T184121_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T190823_20201105T191134_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T191845_20201105T192331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T192335_20201105T194504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T194631_20201105T195229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T195233_20201105T195249_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T195251_20201105T195304_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T195307_20201105T195324_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T195326_20201105T195351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T195353_20201105T195504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T204847_20201105T205041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T210346_20201105T211506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T211649_20201105T212506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T212822_20201105T212947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T212950_20201105T212955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T212957_20201105T213002_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213004_20201105T213011_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213015_20201105T213016_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201105T213019_20201105T213038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213041_20201105T213045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213049_20201105T213101_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213104_20201105T213111_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213114_20201105T213246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213250_20201105T213250_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213258_20201105T213303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213307_20201105T213308_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213310_20201105T213319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213321_20201105T213326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213328_20201105T213330_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213336_20201105T213338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213341_20201105T213351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213355_20201105T213359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T213401_20201105T213427_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T220600_20201105T220900_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T221006_20201105T222144_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T222731_20201105T222958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T223713_20201105T225135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T225314_20201105T230304_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230306_20201105T230736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230739_20201105T230741_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230744_20201105T230758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230801_20201105T230833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230905_20201105T230921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230923_20201105T230926_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230929_20201105T230931_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230933_20201105T230947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T230950_20201105T231452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T232641_20201105T232842_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T233004_20201105T233318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201105T233837_20201105T234345_D001	Loss of echo	The tracking echo is missing for one or more records

#### 4.5 L1B Calibration Usage Check

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

Number of products with errors:

# 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors: 0

## 5. Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors: 0

### 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:

C

### 5.3 L2 Auxiliary Data File Usage Check

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

### 5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

0

### 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

**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_220201105T001734_20201105T001919_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_220201105T001930_20201105T003012_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_220201105T003015_20201105T005218_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_220201105T010807_20201105T013205_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_220201105T020337_20201105T023044_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_220201105T024723_20201105T030625_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_220201105T030628_20201105T031359_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_220201105T033753_20201105T040901_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_220201105T042638_20201105T043037_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_220201105T050147_20201105T050349_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_220201105T051634_20201105T054925_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_2_20201105T060706_20201105T062318_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_220201105T062636_20201105T063130_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_220201105T065404_20201105T071615_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_220201105T071724_20201105T072808_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_220201105T074534_20201105T081141_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_220201105T081156_20201105T081907_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_220201105T083358_20201105T084558_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_220201105T085039_20201105T085159_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_220201105T085231_20201105T090746_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_220201105T092611_20201105T093859_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_220201105T094113_20201105T095905_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_220201105T101125_20201105T101140_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201105T102032_20201105T103004_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_220201105T103013_20201105T103059_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_220201105T103238_20201105T104626_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_220201105T111245_20201105T111449_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_220201105T112027_20201105T112452_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_220201105T112614_20201105T113326_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_220201105T113448_20201105T113626_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_220201105T115822_20201105T115838_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201105T120505_20201105T120712_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_220201105T120916_20201105T122531_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_220201105T124100_20201105T130339_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_220201105T134301_20201105T140431_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_220201105T142039_20201105T144713_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_220201105T144753_20201105T145204_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_220201105T151816_20201105T153857_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_220201105T160109_20201105T163314_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_220201105T164606_20201105T164724_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_220201105T171646_20201105T172138_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_220201105T173925_20201105T180046_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_220201105T180331_20201105T181349_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_220201105T184453_20201105T184937_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_220201105T185124_20201105T190137_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_220201105T191845_20201105T192331_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_220201105T192335_20201105T194504_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_20201105T194631_20201105T195229_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_220201105T200753_20201105T201452_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_220201105T201509_20201105T203912_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_220201105T210346_20201105T211506_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_220201105T211649_20201105T212506_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_220201105T213321_20201105T213326_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201105T213336_20201105T213338_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201105T214806_20201105T220151_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_220201105T221006_20201105T222144_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_220201105T223713_20201105T225135_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_220201105T225314_20201105T230304_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_220201105T230306_20201105T230736_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201105T232641_20201105T232842_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_220201105T233004_20201105T233318_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_220201105T233328_20201105T233714_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_220201105T233837_20201105T234345_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_220201105T234541_20201106T000146_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

## 6. QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	197	197	197	0	0
SIR_SAR_1B	116	116	116	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_LRM_2	193	193	188	5	0
SIR_SAR_2	110	116	116	0	0
SIR_SIN_2	116	110	110	0	0
SIR_GDR_2	14	14	0	0	14

## 6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	•	-	•
SIR_GDR_2_	14	14	14	14	14	14	14	14			
0											

Test Description Key:	est Description Key:					
Abbreviation	Test name	Details				
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch				
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)				
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)				
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)				
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)				
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)				
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)				
STRUCTURESIZEANDF	STRUCTURE_SIZE_AND_READ	Under investigation.				

## 6.2 QCC Warnings

Number of QCC reports with warnings

5

Total numb	er of occurrences of	of each	warning

lotal number of occurrences of each warning							
Product Type	AXSMMEOCI	•	•	-	•	•	•
SIR_LRM_2_	5						

Test Description Key:				
Abbreviation	Test name	Details		
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice		

# 6.2 Missing QCC Reports

Number of products with missing QCC reports:

0