

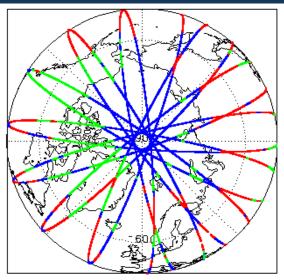
## 1. Overview

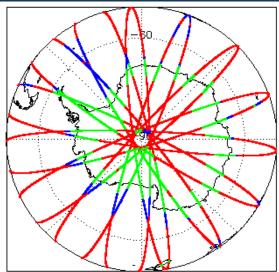
Report Production Date:	23-Apr-2021		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

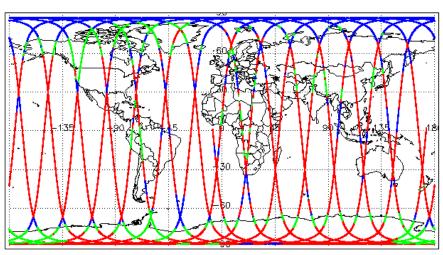
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	See Section 4.5
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

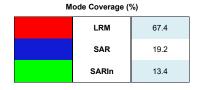
Mission / Instru	ment News
24-Mar-2021	None
25-Mar-2021	None
26-Mar-2021	Nothing planned

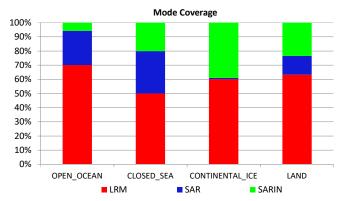
# 2. Global Coverage

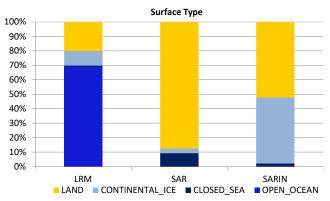












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

Number of products with errors:

(

#### 4.2 L1B Product Header Analysis

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

Number of products with errors:

0

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

## 4.4 L1B Tracking Flags Check

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

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

lumber of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210324T234400_20210325T001229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T001238_20210325T001745_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T002520_20210325T002933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T012028_20210325T012208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T013929_20210325T014123_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T014126_20210325T014131_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T014134_20210325T014135_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T014142_20210325T015005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T021524_20210325T022746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T025936_20210325T025951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T025953_20210325T030010_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030012_20210325T030018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030020_20210325T030024_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030030_20210325T030038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030040_20210325T030042_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030050_20210325T030226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030234_20210325T030237_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030239_20210325T030258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030300_20210325T030317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030319_20210325T030342_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030345_20210325T030511_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T030919_20210325T031849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T032052_20210325T032807_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T035732_20210325T040022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T040024_20210325T040041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T040043_20210325T040109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T040113_20210325T040133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T040135_20210325T040155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T040915_20210325T041310_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T041312_20210325T041728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T041858_20210325T042211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T043818_20210325T044226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T044239_20210325T044309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T044355_20210325T044726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T044729_20210325T044729_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T044734_20210325T044739_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T044742_20210325T044856_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T045049_20210325T045152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T052304_20210325T052427_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T052819_20210325T055208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T055211_20210325T055604_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20210325T055622_20210325T060332_D001	Loss of echo	The tracking echo is missing for one or more records
Company   Comp			
C.   Part   C.   C.   Part   C.   C.   Part   C.   C.   Part   Part   C.   Part   Part   Part   C.   Part   Part   Part   Pa			·
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Company   Comp			
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CS_OPT_SR_LEM_18_20000051084782_000005108428_00000  CS_OPT_SR_LEM_18_20000051084782_000005108458_00000  Loss of each The tracking echo is missing for one or more records to CS_OPT_SR_LEM_18_2000005108458_0000000000000000000000000000000000			
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CS_OFFL_SR_LRN_18_2001025710557_2010035710008_0001 Loss of extro  The tracking extro is missing for one or more records  CS_OFFL_SR_LRN_18_2001025710542_20100357110590_0001 Loss of extro  The tracking extro is missing for one or more records  CS_OFFL_SR_LRN_18_20010257110542_20100357110590_0001 Loss of extro  The tracking extro is missing for one or more records  CS_OFFL_SR_LRN_18_20010257110542_20100357110590_0001 Loss of extro  The tracking extro is missing for one or more records  CS_OFFL_SR_LRN_18_20010257110542_20100357110590_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_20100357110500_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_20100357110500_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_20100357135234_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_20100557135234_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_20100557135234_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_2010057135234_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_2010057135244_0001 Loss of extro  CS_OFFL_SR_LRN_18_20010257110542_2010057135244_0001  CS_OFFL_SR_LRN_18_20010257110542_2010057135244_0001  CS_OFFL_SR_LRN_18_20010257110542_2010057114590_0011  CS_OFFL_SR_LRN_18_2001025714590_2010057144590_0011  CS_OFFL_SR_LRN_18_2001025714490_2010055714490_0011  CS_OFFL_SR_LRN_18_2001025714490_2010055714490_0011  CS_OFFL_SR_LRN_18_2001025714490_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714490_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714490_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_201005714490_0011  CS_OFFL_SR_LRN_18_2001025714900_2010057144900_0011  CS_OFFL_SR_LRN_18_2001025714900_2010057144900_0011  CS_OFFL_SR_LRN_18_2001025714900_201			
CS_OFF_SR_LRM_18_20210325T10012_20210325T10012_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20210325T10012_201005  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20210325T10025_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20210325T10035_201005  CS_OFF_SR_LRM_18_20210325T1003_2010055T10035_201005  CS_OFF_SR_LRM_18_20210325T1003_20210325T1003_2001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20210325T1003_20210325T1005_2001  CS_OFF_SR_LRM_18_20210325T1003_20210325T1005_2001  CS_OFF_SR_LRM_18_20210325T1003_20210325T1005_2001  CS_OFF_SR_LRM_18_20210325T1005_20210325T1005_2001  CS_OFF_SR_LRM_18_20210325T1005T1025_20210325T1005_2001  CS_OFF_SR_LRM_18_20210325T1005T1025_20210325T1005_2001  CS_OFF_SR_LRM_18_20210325T1005T1005_2021005T1005_2001  CS_OFF_SR_LRM_18_20210325T1005T1005_2001  CS_OFF_SR_LRM_18_20210325T10			·
CS_OFF_SR_LRM_18_20210325T10103_2010325T102126_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102126_2010325T102026_D001  Loss of exhat  CS_OFF_SR_LRM_18_20210325T102026_2010325T102026_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102026_2010325T102026_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102026_2010325T102026_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102026_2010325T132234_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102025_2010325T102026_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102025_2010325T102026_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T102025_2010325T102026_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T10203_20210325T101032_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T10203_20210325T10103_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T10203_20210325T10103_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T10103_20210325T10103_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T10103_20210325T10103_D001  Loss of exhat  The tracking exhat is instaing for one or more records  CS_OFF_SR_LRM_18_20210325T10103_D001  Loss of exhat  The tracking exhat is instaining for one or more records  CS_OFF_SR_LRM_18_20210325T10103_D001  Loss of exhat  The tracking exhat is instaining for one or more records  CS_OFF_SR_LRM_18_20210325T10103_D001  Loss of exhat  The tracking exhat is instaining for one or more records  CS_OFF_SR_LRM_18_2021032			
CS_OFF_SR_LRM_18_20210325114264_20210325112256_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325112405_20210325112256_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325112405_20210325112256_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202103251124012_202103251123034_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202103251124012_202103251130334_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325113427_202103251130334_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325113427_20210325114033_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202103251141933_2010325114033_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114193_202103251141932_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114193_202103251141932_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114193_20010325114193_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114193_20010325114193_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114219_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114219_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114222_00010325114222_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114223_0001035114222_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114231_0001035114223_0001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210325114231_0001035114232_00			
CS_OFFL_SR_LRM_1B_20210325T14244_20210325T14305_D001  CS_OFFL_SR_LRM_1B_20210325T15334_20210325T1424D D001  CS_OFFL_SR_LRM_1B_20210325T14201_20210325T12447_D001  CS_OFFL_SR_LRM_1B_20210325T14201_20210325T12447_D001  CS_OFFL_SR_LRM_1B_20210325T14201_20210325T12447_D001  CS_OFFL_SR_LRM_1B_20210325T14201_20210325T12447_D001  CS_OFFL_SR_LRM_1B_20210325T14201_20210325T1424D_D001  CS_OFFL_SR_LRM_1B_20210325T14201_20210325T1424D_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14035_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14035_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14035_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14302_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14390_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14390_20210325T14395_D001  CS_OFFL_SR_LRM_1B_20210325T14250_20210325T1425_D001  CS_OFFL_SR_LRM_1B_20210325T14250_20010325T14250_D001  CS_OFFL_SR_LRM_1B_20210325T14350_20010325T14350_D001  CS_OFFL_SR_LRM_1B_20210325T14350_20010325T14350_D			
CS_OFFL_SIR_LRM_18_20210325T13554_20210325T12424_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T13524_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T13524_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T13524_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T13524_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T13524_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T140592_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T140592_D001  CS_OFFL_SIR_LRM_18_20210325T135452_20210325T140592_D001  CS_OFFL_SIR_LRM_18_20210325T140542_20210325T141952_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141952_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141952_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141952_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141952_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141952_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141105_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141105_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T141105_D001  CS_OFFL_SIR_LRM_18_20210325T141054_20210325T14218_D001  CS_OFFL_SIR_LRM_18_20210325T14218_20210325T14218_D001  CS_OFFL_SIR_LRM_18_20210325T154032_20210325T14050_D001  CS_OFFL_SIR_LRM_18_20210325T154032_20210325T154050_D001  CS_OFFL_SIR_LRM_18_20210325T154032_20210325T154050_D001  CS_OFFL_SIR_LRM_18_20210325T154			
CS_OFFL_SIR_LRM_18_20210325T14201_20210325T14244_D001  CS_OFFL_SIR_LRM_18_20210325T14201_20210325T14234_D001  CS_OFFL_SIR_LRM_18_20210325T135315_20210325T135315_D001  CS_OFFL_SIR_LRM_18_20210325T135315_20210325T135315_D001  CS_OFFL_SIR_LRM_18_20210325T135315_20210325T135315_D001  CS_OFFL_SIR_LRM_18_20210325T135315_20210325T135315_D001  CS_OFFL_SIR_LRM_18_20210325T135315_20210325T13535_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14193_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14193_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141901_20210325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141900_20010325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141900_20010325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T141900_20010325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T14190_20010325T14190_D001  CS_OFFL_SIR_LRM_18_20210325T14190_20010325T14220_D001  CS_OFFL_SIR_LRM_18_20210325T14190_20010325T14220_D001  CS_OFFL_SIR_LRM_18_20210325T142190_20010325T14220_D001  CS_OFFL_SIR_LRM_18_20210325T14230_20010325T14220_D001  CS_OFFL_SIR_LRM_18_20210325T14230_20010325T14220_D001  CS_OFFL_SIR_LRM_18_20210325T14230_20010325T14220_D001  CS_OFFL_SIR_LRM_18_20210325T14230_20010325T14230_D001  CS_OFFL_SIR_LRM_18_20210325T14230_20010325T14230_D001  CS_OFFL_SIR_LRM_18_20210325T14300_20010325T14300_D001  CS_OFFL_SIR_LRM_18_20210325T14300_20010325T14300_D001  CS_OFFL_SIR_LRM_18_20210325T14300_20010325T14300_D001  CS_OFFL_SIR_LRM_18_20210325T14300_20010325T14300_D001  CS_OFFL_SIR_LRM_18_20210325T15300_20010325T13600_D001  CS_OFFL_SIR_LRM_18_20210325T150300_20010325T16300_D001  CS_OFFL_SIR_LRM_18_20210325T150300_20010325T16300_D001  CS_OFFL_SIR_LRM_18_20210325T16300_20010325T16300_D001  CS_OFFL_SIR_LRM_18_20210325T163000_20010325T16300_D001  CS_OFFL_SIR_LRM_18_20210325T16300_20010325			·
CS_OFFL_SIR_LRM_18_20210325T14201_20210325T135424_D001			
CS_OFFL_SIR_LRM_18_20210325T134012_20210325T1435242_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T143513_20210325T143512_00011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T143513_20210325T144550_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T144951_20210325T144950_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T14990_20210325T14950_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T14990_20210325T14918_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T142178_20210325T14218_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T142178_20210325T14217_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T142172_00210325T14217_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T142230_2010325T142230_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T14231_20210325T142230_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T14231_20210325T142230_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T14231_20210325T142300_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T14231_20210325T154022_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T154022_0010325T154022_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T154022_0010325T154022_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210325T154032_0010325T154021_0001 Loss of echo The tracking echo is missing for one o			
CS_OFFL_SIR_LRM_IB_20210325T135427_20110325T140353_00101			
CS_OFFL_SIR_LRM_1B_20210325T149832_20210325T149559_0001			
CS_OFFL_SIR_LRM_18_20210325T149391_20210325T141959_D001			
CS_OFFL_SIR_LRM_18_202103257141931_202103257141918_D001  CS_OFFL_SIR_LRM_18_202103257141918_202103257141918_D001  CS_OFFL_SIR_LRM_18_202103257141918_20210325714218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325714218_20210325714218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325714218_20210325714218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325714218_202103257142218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103257142218_202103257142229_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103257142218_202103257142229_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103257142250_202103257142290_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325714250_202103257142290_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103257145450_20210325715600_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716502_20210325715600_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716302_20210325715600_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716303_202103257165001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716303_202103257163051_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716303_202103257163051_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716303_202103257163051_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325716300_20210325716300_D001  Loss of echo  The track			·
CS_OFFL_SIR_LRM_18_20210325T141940_20210325T14218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14218_20210325T14218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14218_20210325T14218_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14218_202010325T14218_2001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14228_20001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14228_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T142828_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14255_20210325T1505950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155503_20210325T1505950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155503_20210325T1505950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155503_20210325T1555050_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155533_20210335T155561_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T165633_202103325T160241_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160351_20210325T100351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160351_20210325T100351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160304_20210325T100351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160304_20210325T103050_D001  Loss of echo  The tracking echo is miss			
CS_OFFL_SIR_LRM_18_20210325T14218_20210325T14217_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14218_20210325T14215_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T1421615_20210325T142256_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14220_2010325T142256_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T142231_20210325T142256_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T142231_20210325T142256_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T151530_20210325T151546_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T15530_20210325T151546_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T15530_20210325T15546_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155322_20210325T15560_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155322_20210325T15560_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155343_20210325T1600241_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160331_20010325T160351_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160331_20010325T160351_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160351_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T1603504_20210325T163035_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163050_20210325T163030_0001  Loss of echo			
CS_OFFL_SIR_LRM_18_20210325T142128_20210325T14215D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T14215D_20210325T14215D_2001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T142220_20210325T142225_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T142230_20210325T142225_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T145450_20210325T150950_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155352_20210325T150950_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155352_20210325T150950_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155352_20210325T155755_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155833_20210325T155950_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T155833_20210325T15594D_0001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T156332_20210325T160241_D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T160343_20210325T160305_D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163040_20210325T163059_D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163105_20210325T163059_D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163105_20210325T163105_D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163105_20210325T163105_D001 Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T173031_20210325T163309_D001 Loss of			•
CS_OFFL_SIR_LRM_IB_20210325T14215C_20210325T142217_D001			
CS_OFFL_SIR_LRM_1B_20210325T14225T_00210325T142225_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T142220_0210325T142229_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T142220_0210325T150500_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T1516300_20210325T150500_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T1516300_20210325T151640_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T155252_20210325T15576_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T155333_20210325T155841_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T155333_20210325T163541_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T169333_20210325T160351_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160335_20210325T160351_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T160305_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163050_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163154_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163154_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163120_20210325T163154_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173510_20210325T173549_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173561_20210325T173			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T142221_20210325T14223E_D001			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T142251_20210325T150950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15630_20210325T151846_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15620_20210325T156950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T154022_D001325T155756_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T154022_20210325T155756_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15693_20210325T155841_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T156843_20210325T160841_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160350_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163050_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163152_D0210325T16315D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163152_D0210325T16315D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T17334D_D01325T17334D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T17354D_D013	CS_OFFL_SIR_LRM_1B_20210325T142157_20210325T142217_D001	Loss of echo	
CS_OFFL_SIR_LRM_1B_20210325T1518450_20210325T151846_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T1518402_2D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15822_20210325T158756_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15884_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15884_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T15884_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T16831_20210325T16034_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163031_20210325T16034_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163031_20210325T16034_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2010325T16304_20210325T16035D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2010325T16304_20210325T16305D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T16304_20210325T16314_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163122_20210325T16315A_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T16334D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T17341725D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T17344D_20210325T173434_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202103	CS_OFFL_SIR_LRM_1B_20210325T142220_20210325T142229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210325T151630_20210325T151840_D001  CS_OFFL_SIR_LRM_IB_20210325T15522_20210325T155756_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T155833_20210325T155841_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T155833_20210325T155841_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T160331_D0210325T160341_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T160331_D0210325T160351_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T161033T1_02210325T16030D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T161033T1_02210325T1609_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T163104_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T163105_20210325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T163105_20210325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T163126_20210325T163155_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T163105_20210325T163155_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210325T17301_2021032	CS_OFFL_SIR_LRM_1B_20210325T142231_20210325T142256_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T152522_20210325T15560_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T155833_20210325T155841_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T156843_20210325T160241_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160331_20210325T160241_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T160331_20210325T160051_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T161900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T16900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163105_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T16325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173561_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173561_20210325T173549_D001  L	CS_OFFL_SIR_LRM_1B_20210325T145450_20210325T150950_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210325T155832_20210325T155841_D001  CS_OFFL_SIR_LRM_18_20210325T155832_20210325T155841_D001  CS_OFFL_SIR_LRM_18_20210325T155843_20210325T160241_D001  CS_OFFL_SIR_LRM_18_20210325T160331_20210325T160351_D001  CS_OFFL_SIR_LRM_18_20210325T160331_20210325T160351_D001  CS_OFFL_SIR_LRM_18_20210325T161702_20210325T161900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T161702_20210325T161900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163040_20210325T162952_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163040_20210325T163059_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163105_20210325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163105_20210325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163126_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210325T173545_20210325T173613_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		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T155833_20210325T160324_D001  CS_OFFL_SIR_LRM_1B_20210325T155843_20210325T160324_D001  CS_OFFL_SIR_LRM_1B_20210325T160331_20210325T160351_D001  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T161900_D001  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T162952_D001  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163104_D001  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163114_D001  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163125_D001  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163125_D001  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163125_D001  CS_OFFL_SIR_LRM_1B_20210325T16325_163126_20210325T163209_D001  CS_OFFL_SIR_LRM_1B_20210325T16325_16302_D001  CS_OFFL_SIR_LRM_1B_20210325T16325_16302_D001  CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T163209_D001  CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T170350_D001  CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T170350_D001  CS_OFFL_SIR_LRM_1B_20210325T173355_20210325T173343_D001  CS_OFFL_SIR_LRM_1B_20210325T173355_20210325T173613_D001  CS_OFFL_SIR_LRM_1B_20210325T173656_20210325T173613_D001  CS_OFFL_SIR_LRM_1B_20210325T173656_20210325T173613_D001  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T173613_D001  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T173613_D001  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T175418_D001  CS_OFFL_SI			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T165843_20210325T160351_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T161900_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T162727_20210325T162952_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T162952_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163114_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163114_D001 Loss of echo The tracking echo is missing for one or more records  The tracking echo is missing for one or more recor			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T163031_20210325T16900_D001  CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T16900_D001  CS_OFFL_SIR_LRM_1B_20210325T162727_20210325T162952_D001  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001  CS_OFFL_SIR_LRM_1B_20210325T16305_20210325T163114_D001  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163114_D001  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  CS_OFFL_SIR_LRM_1B_20210325T163125_20210325T163125_D001  CS_OFFL_SIR_LRM_1B_20210325T163125_20210325T163125_D001  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  CS_OFFL_SIR_LRM_1B_20210325T16301_20210325T170350_D001  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T173343_D001  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175534_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T175411P_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T175411P_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175537_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T175411P_D001  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T17541B_D001  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T17541B_D			
CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T161900_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163059_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163155_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T17301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173613_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_20210325T173610_2010325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20210325T162727_20210325T163059_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_02010325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163105_02010325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163125_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173349_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175617_20210325T175418_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_20210325T175637_20210325T175418_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 missi			
CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163114_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163155_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_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_20210325T175340_20210325T175418_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_20210325T175637_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T161702_20210325T161900_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163155_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_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_20210325T175637_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T162727_20210325T162952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T163040_20210325T163059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T163126_20210325T163155_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_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_20210325T175340_20210325T175418_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_20210325T175340_20210325T175418_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_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T163105_20210325T163114_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T163201_20210325T163209_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T163123_20210325T163124_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T165421_20210325T170250_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_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_20210325T163126_20210325T163155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_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_20210325T163201_20210325T163209_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T173455_20210325T173549_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_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T180119_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_20210325T165421_20210325T170250_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T173301_20210325T173343_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T180119_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_20210325T173455_20210325T173549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T180119_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T173556_20210325T173613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T180119_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T173616_20210325T174117_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210325T175340_20210325T175418_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T180332_20210325T180520_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210325T175637_20210325T180119_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210325T180332_20210325T180520_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210325T180522_20210325T180630_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T180633_20210325T183107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T184829_20210325T191010_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T191121_20210325T191332_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T191431_20210325T191757_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T191757_20210325T191932_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T194039_20210325T194043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T202259_20210325T204705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T204708_20210325T205158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T205403_20210325T205500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T205546_20210325T205728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T205928_20210325T210013_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T221040_20210325T221437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T221543_20210325T221908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T222003_20210325T222217_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T222731_20210325T222854_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T223315_20210325T223325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T223335_20210325T223359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210325T223359_20210325T223429_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:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20210325T061458_20210325T061505_D001	Cal1 corr. missing	The Cal1 correction has not been applied

#### 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20210325T061458_20210325T061505_D001	Cal1 Correction missing,	The Cal1 Correction has not been applied

### 5. Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

### 5.2 L2 Product Header Analysis

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

Number of products with errors: 0

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

#### 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors:

69

Product	Test Failed	Description
CS_OFFL_SIR_LRM_2_20210324T234400_20210325T001229_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_20210325T001238_20210325T001745_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_20210325T003137_20210325T005859_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T012647_20210325T013448_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T013929_20210325T014123_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T014142_20210325T015005_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_20210325T015123_20210325T015719_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T021524_20210325T022746_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T022934_20210325T023815_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T023942_20210325T024206_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T030919_20210325T031849_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_20210325T032052_20210325T032807_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_20210325T032924_20210325T033630_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_20210325T040113_20210325T040133_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210325T040242_20210325T040312_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210325T040915_20210325T041310_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T041312_20210325T041728_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_220210325T041858_20210325T042211_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T044355_20210325T044726_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210325T045920_20210325T051538_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T052819_20210325T055208_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T055211_20210325T055604_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T062847_20210325T065514_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210325T070749_20210325T073524_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_220210325T073825_20210325T074004_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_220210325T080746_20210325T081309_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_220210325T081312_20210325T083449_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_220210325T084708_20210325T092221_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_220210325T093521_20210325T093702_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_220210325T100129_20210325T100512_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_220210325T101603_20210325T102126_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210325T105217_20210325T110123_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_220210325T111359_20210325T111730_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_220210325T112043_20210325T112256_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_220210325T113336_20210325T113826_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_220210325T114014_20210325T115318_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_220210325T120543_20210325T121244_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_220210325T121253_20210325T123858_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_220210325T130003_20210325T130335_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_220210325T130506_20210325T132805_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_220210325T133124_20210325T133148_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_220210325T134612_20210325T135234_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_220210325T135427_20210325T140353_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_220210325T140833_20210325T141559_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_220210325T143709_20210325T144316_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_220210325T144420_20210325T145236_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_220210325T145450_20210325T150950_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_220210325T152522_20210325T154022_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_220210325T154202_20210325T155756_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_220210325T161702_20210325T161900_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210325T162006_20210325T162605_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_220210325T162727_20210325T162952_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

Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (R	t error
CS_OFFL_SIR_LRM_2_20210325T170454_20210325T172751_D001  (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backs	t error
CS_OFFL_SIR_LRM_2_20210325T175340_20210325T175418_D001  (Retracker 3), Backscatter Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20210325T180332_20210325T180520_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Heigh	
Error (Retracker 2) records  Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter error for Retracker 2 and a height for Retracker 3, Backscatter Error for Retracker 2 and a height for Retracker 3 for one or more records	
CS_OFFL_SIR_LRM_2_20210325T180633_20210325T183107_D001 (Retracker 3), Backscatter Error for Retracker 3 for one or more records	эге
(Netrative 2)	error
CS_OFFL_SIR_LRM_2_20210325T184829_20210325T191010_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2)  There is a height and backscatter error for Retracker 2 for one or mercords	re
CS_OFFL_SIR_LRM_2_20210325T194239_20210325T201015_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or mercords	ore
CS_OFFL_SIR_LRM_2_20210325T202259_20210325T204705_D001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) and a height for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height for Retracker 3 for one or more records	error
CS_OFFL_SIR_LRM_2_20210325T204708_20210325T205158_D001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) and a height for Retracker 3 for one or more records	error
CS_OFFL_SIR_LRM_2_20210325T205928_20210325T210013_D001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) and a height for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height for Retracker 3 for one or more records	error
CS_OFFL_SIR_LRM_2_20210325T211411_20210325T214916_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2)  There is a height and backscatter error for Retracker 2 for one or mercords	ore
CS_OFFL_SIR_LRM_2_20210325T223740_20210325T224018_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or mercords	re
CS_OFFL_SIR_LRM_2_20210325T225411_20210325T230244_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or mercords	ore
CS_OFFL_SIR_LRM_2_20210325T230530_20210325T232836_D001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) and a height for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height for Retracker 3 for one or more records	error
CS_OFFL_SIR_LRM_2_20210325T234034_20210325T235404_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or mercords	ore
CS_OFFL_SIR_LRM_2_20210325T235552_20210326T000200_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or mercords	re

# 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	200	200	200	0	0
SIR_SAR_1B	141	141	141	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_LRM_2	200	200	196	4	0
SIR_SAR_2	110	141	141	0	0
SIR_SIN_2	141	110	108	2	0
SIR_GDR_2	14	14	0	0	14

## 6.1 QCC Errors

Number of products with QCC errors:

14

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

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

# 6.2 QCC Warnings

Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMME000	-	-	•
SIR_LRM_2_	0	3	1	1			
SIR_SIN_2_	2	0	0	0			
,		•	•	'	,	,	'
Test Description Key:							

Test Description Key:					
Abbreviation	Test name	Details			
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice			
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice			
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean	The xref_ssb is mandatory in LRM products over open ocean			
AXWMME000	AttributeXrefWindModelMustExistOverOpenOcean	The xref_wind_model attribute is mandatory in LRM products over open ocean			

## 6.2 Missing QCC Reports

Number of products with missing QCC reports:

0