

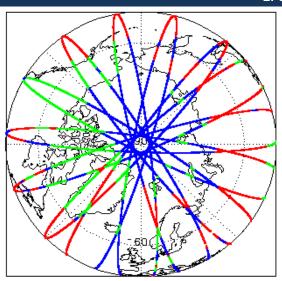
# 1. Overview

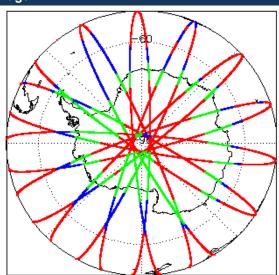
Report Production Date:	08-Jun-2021			
Processor Used:	CryoSat Ice Processor			
Data Used:	L1B and L2 OFFLINE Data			

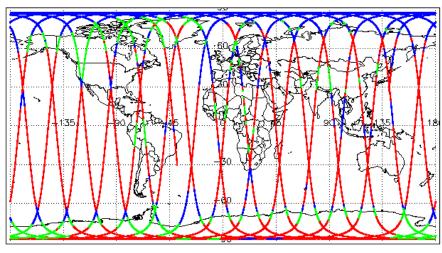
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

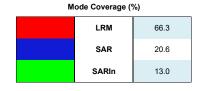
Mission / Instru	ment News
07-May-2021	None
08-May-2021	None
09-May-2021	Nothing planned

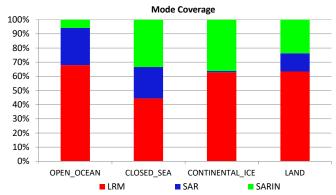
# 2. Global Coverage

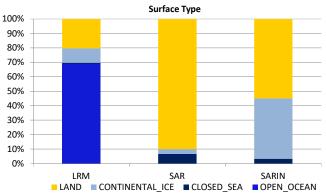












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

# 4. Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

## 4.2 L1B Product Header Analysis

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

Number of products with errors:

0

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

0

## 4.4 L1B Tracking Flags Check

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

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

umber of products with errors: 11

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210507T235407_20210508T000609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T000612_20210508T000634_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003826_20210508T003827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003829_20210508T003835_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003837_20210508T003904_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003906_20210508T003908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003910_20210508T003916_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003919_20210508T003921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003923_20210508T003924_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003928_20210508T003935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003939_20210508T003943_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T003948_20210508T004142_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T004144_20210508T004213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T004219_20210508T004222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T004224_20210508T004413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T005940_20210508T011431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T013616_20210508T014023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T014025_20210508T014115_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T014118_20210508T014238_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T014803_20210508T014816_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T014823_20210508T015956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T020020_20210508T020100_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T021706_20210508T022152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T022232_20210508T022724_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T022728_20210508T022743_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T022745_20210508T022850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T022925_20210508T023042_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T030151_20210508T030308_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T030809_20210508T033431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T033700_20210508T034221_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T034345_20210508T034435_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T035630_20210508T040249_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T040252_20210508T040316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T040318_20210508T040319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T040501_20210508T040546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T040549_20210508T040553_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T040804_20210508T042820_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T053701_20210508T054422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T054424_20210508T054607_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T054610_20210508T054616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T054618_20210508T054735_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20210508T054738_20210508T061307_D001	Loss of echo	The tracking echo is missing for one or more records
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Co., CPT_1, SR_1, RM_10_20000000000000000000000000000000000			
Co. OFT. SR. LAM 18 20205081111425 2020508111425 DOT			
CS_OFF_EN_LINK_IR_20219568T119582_201958T119582_2010  CS_OFF_EN_LINK_IR_20219568T119582_201958T119582_2010  CS_OFF_EN_LINK_IR_20219568T119582_201958T119582_2010  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_2019585_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195958T10001_000  CS_OFF_EN_LINK_IR_20219568T10003_20195958T10001_000  CS_OFF_EN_LINK_IR_20219568T10003_20195958T10001_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195958T10001_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195958T10001_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195958T10003_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195081T10003_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195081T10003_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195081T10003_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195081T10003_000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_20195081T100000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_000000  Loss of sehe  The floating sehe is missing for one or more records  CS_OFF_EN_LINK_IR_20219568T10003_000000000000000000000000000000000			
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CS_OFF_SR_LRW_18_20010506173015_20105061710143_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173055_20105061710014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173055_20105061710551_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20105061730552_20105061710551_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_20105061710553_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_2010506173053_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_2010506173053_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_2010506173053_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_2010506173053_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_20105061715017_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_20105061715017_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173053_20105061715010_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_OFF_SR_LRW_18_2010506173053_2010506171504D_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_OFF_SR_LRW_18_2010506173054_2010561715005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173054_2010561715005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173054_D001056173050_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_2010506173054_D001056173050_D001 Loss of echo The tracki			
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CS_OFF_L_SR_LRM_1B_20210508T125339_0210508T125431_D001  CS_OFF_L_SR_LRM_1B_20210508T125251_20210508T125731_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T12546_02010508T133107_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T132146_02010508T133107_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T132146_02010508T13313_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T135549_20210508T13573_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T135549_20210508T13573_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T1353549_20210508T14040_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151039_20210508T14040_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151039_20210508T151240_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151039_20210508T151240_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151039_20210508T151240_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151039_20210508T151040_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151009_20210508T151009_2001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151009_20210508T151009_2001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T151009_20210508T151009_2001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_LRM_1B_20210508T15009_2001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_L_SR_			
CS_OFF_SIR_LRM_18_20210588T125S1_20210588T135F3_D001  CS_OFF_SIR_LRM_18_20210588T305M_2021058BT3373_D001  CS_OFF_SIR_LRM_18_2021058BT33736_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33736_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33736_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33736_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33736_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33736_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT33733_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT3373_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT3373_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT3373_D001  CS_OFF_SIR_LRM_18_2021058BT33583_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT35383_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT35383_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT3538_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT3538_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT3538_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT3538_2021058BT312030_D001  CS_OFF_SIR_LRM_18_2021058BT3538_2021058BT313200_D001  CS_OFF_SIR_LRM_18_2021058BT3538_2021058BT313200_D001  CS_OFF_SIR_LRM_18_2021058BT354800_2021058BT34800_D001  CS_OFF_SIR_LRM_18_2021058BT354800_2021058BT34800_D001  CS_OFF_SIR_LRM_18_2021058BT354800_2021058BT34800_D001  CS_OFF_SIR_LRM_18_2021058BT364000_2021058BT364800_D001  CS_OFF_SIR_LRM_18_2021058BT364000_2021058BT364800_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT364800_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT364800_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT364800_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT364800_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT30300_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT30300_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT30300_D001  CS_OFF_SIR_LRM_18_2021058BT30300_2021058BT30300_D001  CS_OFF_SIR_LRM_18_2021058BT30300_202105			
CS_OFFL_SIR_LRM_18_20210080F139434_20210080F131945_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F133738_20210508F13373_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F133738_20210508F13373_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F133738_20210508F13373_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F133738_20210508F13373_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F13205_20210508F13208_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F13205_20210508F13240_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F13339_20210508F13240_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F13339_20210508F13240_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F13339_20210508F15400_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F154000_202210080F154000_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F154000_202210080F164031_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F154000_202210080F164031_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F162000_20210080F164031_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F162000_20210080F162000_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F162000_20210080F162000_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210080F1620080_20210080F162000_0001  Loss of echo Th			·
CS_OFFL_SIR_LRM_18_20210008T132148_20210008T133107_D001			
CS_OFFL_SIR_LRM_18_20210080F133146_20210080F135373_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210080F135378_20210588F13378_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210080F135358_2021058F13530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210580F135358_2021058F1530F1_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F150748_2021058F15240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F150748_2021058F15240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15409_2021058F154000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15409_2021058F15409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15409_2021058F15609_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15609_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15609_D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F15609_D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F156090_Z021058F156090_D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F156090_Z021058F156090_D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F156090_Z021058F156090_D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021058F156090_Z021058F156090_D01 Loss of echo The tracking echo is missing			
CS_OFFL_SIR_LRM_1B_20210508T133736_20210508T134135_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T13554B_20210508T140140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T15054B_20210508T140140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T151505_20210508T151240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T151505_20210508T152030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T153539_20210508T152030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T153539_20210508T154000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T154300_D0010508T160850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T16400_20210508T160850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165007_D0010508T160850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165007_D0010508T165005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165007_D0010508T165005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165007_D0010508T165005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T1803308_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T1903308_			
CS_OFFL_SIR_LRM_18_20210008T135859_20210008T14004_D001			
CS_OFFL_SIR_LRM_18_20210508T150746_20210508T1908T9_0001  CS_OFFL_SIR_LRM_18_20210508T150746_20210508T1504D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T150748_20210508T1524D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T153339_20210508T154107_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T153339_20210508T15400_0001  CS_OFFL_SIR_LRM_18_20210508T154244_20210508T15400_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T154244_20210508T154058_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16244_20210508T16608_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16509_20210508T16808_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16509_20210508T16507_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16509_20210508T16504D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16509_20210508T16504D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T18004_20210508T18004D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T180048_20210508T18004D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T180048_20210508T18004D_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T193030_20210508T180308_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T193030_20210508T193850_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T193030_20210508T193030_0001  Loss of echo The tracking ec			
CS_OFFL_SIR_LRM_18_20210508T1502B_20210508T1512DB_20210508T1512DB_D001  CS_OFFL_SIR_LRM_18_20210508T1512DB_20210508T1512DB_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T1512DB_20210508T1512DB_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T153DB_20210508T154DB_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T154DB_20210508T164DB_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T154DB_20210508T164DB_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16502B_20210508T168DB_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16502B_20210508T16507D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16502T_20210508T16507D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16507D_20210508T16505D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16507D_20210508T16505D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T16507D_20210508T18503B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T18303B_20210508T18303B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T18303B_20210508T18303B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T18303B_20210508T18303B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T19303B_20210508T18303B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210508T19303B_20210508T1903DB_D001  Loss of echo  The tracking echo is missing for on			·
CS_OFFL_SIR_LRM_18_20210008T151205_20210008T151240_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T151339_20210008T154107_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T15409_20210008T154006_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T15409_20210008T164006_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T164009_20210008T16008E_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T163040_20210008T165007_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T165007_20210008T165007_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T165007_20210008T165043_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T165007_20210008T165043_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T172004_20210008T172011_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T172004_20210008T178043_2010001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T1803038_20210008T183038_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T183038_20210008T183038_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T183038_20210008T183038_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T183038_20210008T183058_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T190343_20210008T19004_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210008T204312_20210008T190041_D001  Loss			
CS_OFFL_SIR_LRM_1B_20210508T151339_20210508T15400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T15404_20210508T15400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T154092_20210508T160858_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165024_20210508T160858_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165024_20210508T16500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165021_20210508T16500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T1650807_20210508T165040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T175094_20210508T175094_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T172004_20210508T175094_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T18008_20210508T183036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180308_20210508T183036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T183036_20210508T183036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T193037_20210508T193035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T193037_20210508T193035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T193037_20210508T195031_20010508T200412_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T200412_2010508T200412_D001 Loss of echo The tracking ec			·
CS_OFFL_SIR_LRM_18_20210508T153539_20210508T15406_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T15406_20210508T164081_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T15406_20210508T164081_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T162340_20210508T164081_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T162307_20210508T16500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T165077_20210508T16500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T165070_20210508T16500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T16200_20210508T172011_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T180200_20210508T183030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T183030_20210508T183030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T183030_20210508T183030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T183030_20210508T183030_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T183330_20210508T183330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T183330_20210508T189330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T19330_20210508T19930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T19308_20210508T200106_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210508T200415_20210508T200412_D001 Loss of echo The tracking echo is missing for on			
CS_OFFL_SIR_LRM_1B_20210508T154244_20210508T160858_D001			
CS_OFFL_SIR_LRM_1B_20210508T16304_20210508T163085_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T162340_20210508T164831_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T16507_20210508T165805_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T165807_20210508T165805_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T172004_20210508T175041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T182008_20210508T183036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180208_20210508T18008_20010508T18008_20010508T18008_20010508T18009_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180208_20210508T18009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180325_20210508T18009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T180335_20210508T180335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T193330_20210508T193330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T193330_20210508T19508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T19508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T19508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T200421_20210508T200421_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T200424_20210508T200421_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210508T201432_0010508T201431_D001 Loss of echo The tracking echo is			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T16234Q_20210508T16502T_0001  CS_OFFL_SIR_LRM_1B_20210508T16502T_20210508T16506D_D001  CS_OFFL_SIR_LRM_1B_20210508T16507Q_20210508T16506D_D001  CS_OFFL_SIR_LRM_1B_20210508T16507Q_20210508T16508D_D001  CS_OFFL_SIR_LRM_1B_20210508T16507Q_20210508T16508D_D001  CS_OFFL_SIR_LRM_1B_20210508T16508Q_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T16508Q_20210508T172001_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180208_20210508T180308_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183153_20210508T183256_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183330_20210508T183358_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T193330_20210508T1938550_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T194937_20210508T19530B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T195431_20210508T19540_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T195431_20210508T19540_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T195431_20210508T200412_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200451_20210508T200421_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200424_20210508T200421_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T			·
CS_OFFL_SIR_LRM_1B_20210508T16502T_20210508T16505_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T16507_20210508T16505_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T165007_20210508T165043_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180208_20210508T180306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180308_20210508T180306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180308_20210508T180304_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180338_20210508T180328_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180338_20210508T180388_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T180338_20210508T193385_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T193385_20210508T193385_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T193385_20210508T193385_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T19508T19508T1950914_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T19508T20004T10001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200451_20210508T20042T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200451_20210508T20042T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200452_20210508T200437_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200452_20210508T201033B_D001  Loss			
CS_OFFL_SIR_LRM_1B_20210508T165707_20210508T165843_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T172004_20210508T172011_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T172014_20210508T172011_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183038_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183038_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183352_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183352_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183353_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T193330_20210508T193853_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T194937_20210508T193858_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T194937_20210508T195914_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T195936_20210508T200106_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200241_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200421_200412_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200421_20210508T200437_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201122_20210508T201331_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T2013087_20210508T201331_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2021050			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210508T165807_20210508T165843_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T180308_20210508T183036_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T183038_20210508T183049_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T183153_20210508T183326_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T183336_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T193330_20210508T193385_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T194937_20210508T193385_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T194937_20210508T195386_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T194937_20210508T195914_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T195914_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T20012508T200106_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T200415_20210508T2001412_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T200415_20210508T200437_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T201422_20210508T201421_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T201422_20210508T201431_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T201437_20210508T201431_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210508T201440_20210508T201430_D001  Loss of echo  The tracking			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T172004_20210508T172011_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183038_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183038_20210508T183049_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183153_20210508T183358_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T183333_20210508T183358_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T193333_02010508T193353_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T193333_D0210508T193353_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T194937_20210508T195308_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T195431_20210508T195914_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200412_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200412_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200417_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201221_20210508T200437_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T200437_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201409_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201409_D001  Loss of echo  The tracking echo is mi			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210508T200415_20210508T200421_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T200424_20210508T200437_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201112_20210508T201142_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201221_20210508T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201547_20210508T201602_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214613_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_20210508T214246_20210508T214613_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_20210508T214246_20210508T214714_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210508T195936_20210508T200106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T200424_20210508T200437_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201112_20210508T201142_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201221_20210508T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201547_20210508T201602_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_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	CS_OFFL_SIR_LRM_1B_20210508T200251_20210508T200412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T201112_20210508T201142_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201221_20210508T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201547_20210508T201602_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_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_20210508T214246_20210508T214613_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_20210508T200415_20210508T200421_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T201221_20210508T201331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T201547_20210508T201602_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_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_20210508T200424_20210508T200437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_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_20210508T213440_20210508T214019_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_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_20210508T214246_20210508T214714_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_20210508T201112_20210508T201142_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T201547_20210508T201602_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_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_20210508T201221_20210508T201231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214615_20210508T214714_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210508T201302_20210508T201338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210508T214615_20210508T214714_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_20210508T214615_20210508T214714_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210508T213440_20210508T214019_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210508T214246_20210508T214613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T220912_20210508T221049_D001 Loss of echo The tracking echo is missing for one or more records			
	CS_OFFL_SIR_LRM_1B_20210508T220912_20210508T221049_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210508T234746_20210508T234753_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T234757_20210508T234834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T234839_20210508T234857_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T234900_20210508T235012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210508T235407_20210509T000217_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.

lumber of products with errors:

#### 4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR LRM 1B 20210508T153539 20210508T154107 D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set,
CS_OFFL_SIR_LRM_IB_202100001100039_202100001104107_D001	Lond end, Trix echo endi	indicating a degraded echo

## 5. Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

## 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

#### 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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_220210507T235407_20210508T000609_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_220210508T000751_20210508T002437_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_220210508T004638_20210508T005735_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

CEL CPTL OR LINE 2 201000710300 (201000710300 COD)  CEL CPTL OR LINE 2 201000710300 201000710300 COD)  CEL CPTL OR LINE 2 2010007103000 (201000710300 COD)  CEL CPTL OR LINE 2 201000710300 (201000710300 COD)  CEL	CS_OFFL_SIR_LRM_220210508T005940_20210508T011431_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
ESCOTT _EST_ENLY2012000170300_2010001103001_0001  Software Novel Temperature (Co. OFFL SIX LEVY20120001703000_2010001103001_0001  **Expl Corm (Remarker 2) Decisional Programment of the Incident of one or more records. The programment of the Incident of one or more records. The programment of the Incident of one or more records. The Incident of the Incident of the or more records. The Incident of the Incident of the or more records. The Incident of the Incident of the or more records. The Incident of the Incident of the or more records. The Incident of Incident of Incident In	CS_OFFL_SIR_LRM_220210508T013045_20210508T013540_D001	(Retracker 3), Backscatter Error	
Seguinary (Response 1), Buddedom  CS_OFF_BR_[BBL2_SEPROMETROMA_PERMONENTIALS()_DOST  CS_OFF_BR_[BBL2_SEPROME	CS_OFFL_SIR_LRM_220210508T014823_20210508T015956_D001		· · · · · · · · · · · · · · · · · · ·
CS_CRFL_SR_LBM_2_202100001000000_3210000100041_EBS1  CS_CRFL_SR_LBM_2_2021000010000000_3210000100041_EBS1  CS_CRFL_SR_LBM_2_2021000010000000_32100001  CS_CRFL_SR_LBM_2_2021000010000000_32100001  CS_CRFL_SR_LBM_2_2021000010000000_32100001  CS_CRFL_SR_LBM_2_202100001000000000000000000000000000	CS_OFFL_SIR_LRM_220210508T020224_20210508T020357_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Empirication 2)  Empiri	CS_OFFL_SIR_LRM_220210508T023858_20210508T025342_D001	,	· · · · · · · · · · · · · · · · · · ·
Seg. OFFL_SIRL_FML_2_X0210088104806_X0210808104700_D001  Segil Firm (Retinded r. 2), stages from (Retinded r. 3) in shight and backcoater aron for florescaler 2 and a height error (Retinded r. 3). Indiges from Retinded r. 3) in shight and backcoater aron for florescaler 2 and a height error (Retinded r. 3). Indiges from Retinded r. 3). Indiges from Retinded r. 3). Separation From	CS_OFFL_SIR_LRM_220210508T030809_20210508T033431_D001		
Signature 19, Basecardin Ferror (Petraduce 2), Signature 19, Basecardin Ferror (Petraduce 2), Signature 19, Basecardin Ferror (Petraduce 2), Signature 19, S	CS_OFFL_SIR_LRM_220210508T040252_20210508T040316_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
GS_OPPL_SIR_LEM_2_202105067104295_20210506710439_D001  Files (Files Size 2)  Height Error (Relatacler 2), Backscaller From Files Size 2) in the in a feelight and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller error for Relatacler 2 and a height and backscaller	CS_OFFL_SIR_LRM_220210508T040804_20210508T042820_D001	(Retracker 3), Backscatter Error	
Service (Retrocker 2) records  Free (Retrocker 2) records  Free is a height and backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height and backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height and backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error (Retrocker 2) records  Free is a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 for one or more records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 2) records  Free is a height error backscatter error for Retracker 2 and a height error (Retrocker 3) backscatter error for Retracker 2 and a height error (Retrocker 3) backscatter error for Retracker 2 and a height error (Retrocker 3) backscatter error for Retracker 2 and a height error (Retrocker 3) backscatter error for Retracker 2 and a height error (Retrocker 3) backscatter error for Retracker 2 and a height error (Retrocker 2) backscatter error for Retracker 2 and a height error (Retrocker 2) backscatter error for Retracker 2 and a height error (Retrocker 2) backscatter error for Retracker 2 and a height error (Retrocker 2) backscatter error for Retracker 2 and a height error (Retrocker 2) backscatter error for Retracker 2 and a height error (Retrocker 2) backscatter error for Retracker 2 and a height error (Retrocker 2) ba	CS_OFFL_SIR_LRM_220210508T042905_20210508T043251_D001	(Retracker 3), Backscatter Error	
OS_OFFL_SIR_LEM_2_20210980T01424_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07144_20210980T07124_D001  CS_OFFL_SIR_LEM_2_20210980T07242_D001  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T07324_D0010  CS_OFFL_SIR_LEM_2_20210980T08080_20210980T08080_D001  CS_OFFL_SIR_LEM_2_20210980T	CS_OFFL_SIR_LRM_220210508T044726_20210508T051414_D001		-
Error (Retrocker 2), Surface model univariable  So OFFL_SIR_LRM 2_202105081074424_202105081071546_D001  Hight Error (Retrocker 2), Beackscatter Error (Retrocker 2), Beackscatte	CS_OFFL_SIR_LRM_220210508T054738_20210508T061307_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2) econds  CS_OFFL_SIR_LRM_2_2021008T072945_20210508T072424_D001  Refreshed 3), Backscaffer Error (Retracker 2), Height Error (Retracker 3), Backscaffer Fror (Ret	CS_OFFL_SIR_LRM_220210508T062709_20210508T070121_D001	Error (Retracker 2), Surface model	
(Refranckar 3), Backscaatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscaatter Error (Retracker 2), Backscaatter E	CS_OFFL_SIR_LRM_220210508T071424_20210508T071548_D001		
GS_OFFL_SIR_LRM_2_20210508T073547_20210508T074348_D001  CS_OFFL_SIR_LRM_2_20210508T073547_20210508T074348_D001  CS_OFFL_SIR_LRM_2_20210508T080589_20210508T082819_D001  CS_OFFL_SIR_LRM_2_20210508T080589_20210508T082819_D001  CS_OFFL_SIR_LRM_2_20210508T0805105_20210508T082819_D001  CS_OFFL_SIR_LRM_2_20210508T085105_20210508T083949_D001  CS_OFFL_SIR_LRM_2_20210508T085105_20210508T083949_D001  CS_OFFL_SIR_LRM_2_20210508T085302_20210508T085856_D001  CS_OFFL_SIR_LRM_2_20210508T085302_20210508T085856_D001  CS_OFFL_SIR_LRM_2_20210508T085302_20210508T083040_D001  CS_OFFL_SIR_LRM_2_20210508T081304_20210508T083040_D001  CS_OFFL_SIR_LRM_2_20210508T084534_20210508T10820_D001  CS_OFFL_SIR_LRM_2_20210508T084534_20210508T10820_D001  CS_OFFL_SIR_LRM_2_20210508T104559_20210508T10820_D001  CS_OFFL_SIR_LRM_2_20210508T104559_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T110820_D001  CS_OFFL_SIR_LRM_2_20210508T1104309_2010508T110450_D001  CS_OFFL_SIR_LRM_2_20210508T104309_2010508T120420_D001  CS_OFFL_SIR_LRM_2_20210508T104309_2010508T104300_D001  CS_OFFL_SIR_LRM_2_20210508T104309_2010508T104300_D001  CS_OFFL_SIR_LRM_2_20210508T104309_2010508T104300_D001  CS_OFFL_SIR_LRM_2_20210508T104400_D001  CS_OFFL_SIR_LRM_2_20210508T104400_D001  CS_OFFL_SIR_	CS_OFFL_SIR_LRM_220210508T072045_20210508T072136_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210508T093547_20210508T094348_D001  CS_OFFL_SIR_LRM_2_20210508T080639_20210508T082819_D001  Eleight Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retra	CS_OFFL_SIR_LRM_220210508T072323_20210508T072424_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2)  Error (Re	CS_OFFL_SIR_LRM_220210508T073547_20210508T074348_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2), Surface model unavailable  Error (Retracker 2), Surface model unavailable  Error (Retracker 2), Surface model unavailable  Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Beight Error (Retracker 2), Beight Error (Retracker 3), Backscatter Error (Retracker 2), Beight Error (Retracker 2), Beight Error (Retracker 2), Beckscatter Error (Retracker 3), Beckscatter Error (R	CS_OFFL_SIR_LRM_220210508T080639_20210508T082819_D001		
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Freeords  Error (Retracker 2)  Freeords  Free is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Free free freeords  Free is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter Free free freeords  Free is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter Freeords  Free is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracke	CS_OFFL_SIR_LRM_220210508T083105_20210508T083949_D001	Error (Retracker 2), Surface model	
CS_OFFL_SIR_LRM_2_20210508T091220_20210508T101820_D001  (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable  CS_OFFL_SIR_LRM_2_20210508T114723_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T121524_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T123339_20210508T124820_D001  Eleight Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220210508T085302_20210508T085556_D001		
CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110652_D001  CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110652_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T114241_D001  CS_OFFL_SIR_LRM_2_20210508T112529_20210508T114241_D001  CS_OFFL_SIR_LRM_2_20210508T114723_20210508T114241_D001  CS_OFFL_SIR_LRM_2_20210508T114723_20210508T115632_D001  CS_OFFL_SIR_LRM_2_20210508T114723_20210508T115632_D001  CS_OFFL_SIR_LRM_2_20210508T121524_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T121524_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T121524_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T123339_20210508T124820_D001  CS_OFFL_SIR_LRM_2_20210508T123339_20210508T131945_D001  CS_OFFL_SIR_LRM_2_20210508T130434_20210508T131945_D001  CS_OFFL_SIR_LRM_2_20210508T130	CS_OFFL_SIR_LRM_220210508T091220_20210508T093040_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210508T104359_20210508T110652_D001  (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and no DEM or Stope Model was used for the location of one or more records  CS_OFFL_SIR_LRM_2_20210508T114723_20210508T12524_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T121524_20210508T123125_D001  CS_OFFL_SIR_LRM_2_20210508T123339_20210508T124820_D001  CS_OFFL_SIR_LRM_2_20210508T123339_20210508T124820_D001  CS_OFFL_SIR_LRM_2_20210508T130434_20210508T131945_D001  CS_OFFL_SIR_LRM_2_20210508T130434_20210508T131945_D001  Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter E	CS_OFFL_SIR_LRM_220210508T094534_20210508T101820_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2)  Error (Retracker 2), Backscatter Error (Retracker 3),	CS_OFFL_SIR_LRM_220210508T104359_20210508T110652_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210508T114723_20210508T115632_D001  Error (Retracker 2), Surface model unavailable  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records  CS_OFFL_SIR_LRM_2_20210508T123339_20210508T124820_D001  CS_OFFL_SIR_LRM_2_20210508T13339_20210508T124820_D001  Height Error (Retracker 2), Backscatter Error (Retracker 3), Backsca	CS_OFFL_SIR_LRM_220210508T112529_20210508T114241_D001		
CS_OFFL_SIR_LRM_2_20210508T121524_20210508T123125_D001  (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 3) for one or more records  There is a height and backscatter error for Retracker 2 and a height error (retracker 2)  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Err	CS_OFFL_SIR_LRM_220210508T114723_20210508T115632_D001	Error (Retracker 2), Surface model	
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) for one or more records  CS_OFFL_SIR_LRM_2_20210508T132146_20210508T133107_D001  Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3) for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220210508T121524_20210508T123125_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210508T130434_20210508T131945_D001  (Retracker 3), Backscatter Error (Retracker 2) for Retracker 3 for one or more records  (Retracker 3), Backscatter Error (Retracker 3) for one or more records  (Retracker 3), Height Error (Retracker 3), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatte	CS_OFFL_SIR_LRM_220210508T123339_20210508T124820_D001		-
CS_OFFL_SIR_LRM_2_20210508T132146_20210508T133107_D001 (Retracker 3), Backscatter Error for Retracker 2 and a neight error for Retracker 3 for per control or neighbor and a neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for Retracker 3 for per control or neighbor error for per cont	CS_OFFL_SIR_LRM_220210508T130434_20210508T131945_D001	(Retracker 3), Backscatter Error	
	CS_OFFL_SIR_LRM_220210508T132146_20210508T133107_D001	(Retracker 3), Backscatter Error	

CS_OFFL_SIR_LRM_220210508T134239_20210508T134248_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210508T135835_20210508T141040_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_220210508T141540_20210508T142945_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_220210508T144408_20210508T150100_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_220210508T150211_20210508T150552_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_220210508T151339_20210508T152030_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210508T154244_20210508T154606_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_220210508T154609_20210508T160858_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_220210508T162340_20210508T164831_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_220210508T172129_20210508T174747_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_220210508T180208_20210508T183036_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_220210508T183038_20210508T183049_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_220210508T183153_20210508T183226_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_220210508T183826_20210508T184008_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_220210508T185319_20210508T192645_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_220210508T200620_20210508T200722_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_220210508T201302_20210508T201338_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_220210508T201657_20210508T202038_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_220210508T203222_20210508T204135_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_220210508T204420_20210508T210623_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_220210508T212036_20210508T213252_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_220210508T213440_20210508T214019_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_220210508T214615_20210508T214714_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_220210508T221127_20210508T224450_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_220210508T230333_20210508T233449_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_220210508T234900_20210508T235012_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210508T235407_20210509T000217_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

# 6. QCC Report Analysis

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	171	171	171	0	0
SIR_SAR_1B	132	132	132	0	0
SIR_SIN_1B	100	100	100	0	0
SIR_LRM_2	171	171	164	7	0
SIR_SAR_2	100	132	132	0	0
SIR_SIN_2	132	100	98	2	0
SIR_GDR_2	15	15	0	0	15

## 6.1 QCC Errors

## Number of products with QCC errors:

15

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	•	•
SIR GDR 2	15	15	15	15	15	15	15	15			

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)				
STRUCTURESIZEAND	STRUCTURE_SIZE_AND_READ	Under investigation.				

# 6.2 QCC Warnings

#### Number of QCC reports with warnings

9

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	•	-	-	•
SIR_LRM_2_	0	7					
SIR SIN 2	2	0					

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

## 6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS\_OFFL\_SIR\_GDR\_2\_\_20210508T231712\_20210509T005627\_D002