

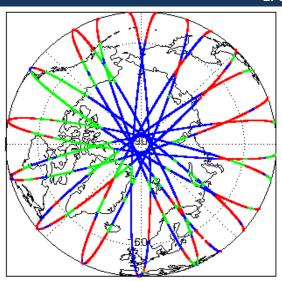
1. Overview

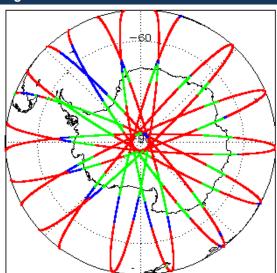
| Report Production Date: | 11-Mar-2021 | | | | |
|-------------------------|-------------------------|--|--|--|--|
| Processor Used: | CryoSat Ice Processor | | | | |
| Data Used: | L1B and L2 OFFLINE Data | | | | |

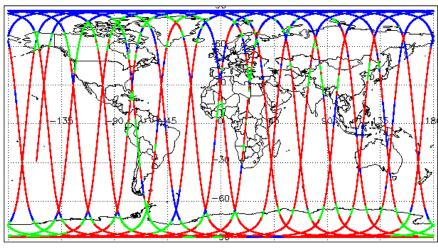
| Check | Status |
|--|------------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | Nominal |
| Star Tracker Usage Check | 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 |

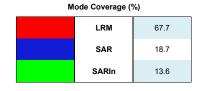
| Mission / Instrument News | | | | |
|---------------------------|-----------------|--|--|--|
| 08-Feb-2021 | None | | | |
| 09-Feb-2021 | None | | | |
| 10-Feb-2021 | Nothing planned | | | |

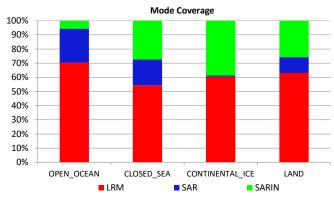
2. Global Coverage

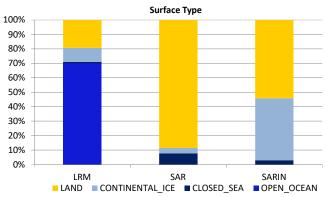












3. Instrument Configuration

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:

0

4.2 L1B Product Header Analysis

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

Number of products with errors:

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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_20210209T000355_20210209T000441_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T000459_20210209T000624_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T013633_20210209T014135_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T014214_20210209T014342_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T024349_20210209T024620_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T024637_20210209T025038_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034129_20210209T034217_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034221_20210209T034222_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034225_20210209T034226_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034232_20210209T034234_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034237_20210209T034253_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034256_20210209T034303_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T034306_20210209T034329_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T040039_20210209T040200_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T040203_20210209T040209_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T040212_20210209T041339_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T043622_20210209T044406_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T044408_20210209T044858_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052051_20210209T052100_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052102_20210209T052133_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052138_20210209T052143_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052145_20210209T052150_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052200_20210209T052324_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052327_20210209T052357_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052401_20210209T052412_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052414_20210209T052418_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T052423_20210209T052645_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T053031_20210209T054002_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T054238_20210209T055736_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T061719_20210209T062029_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T063027_20210209T063209_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T063211_20210209T063217_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T063220_20210209T063450_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T064020_20210209T064325_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T065934_20210209T070318_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T070321_20210209T070452_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T070454_20210209T070551_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T070556_20210209T070607_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T070609_20210209T070640_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T070642_20210209T070700_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T070703_20210209T070827_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | | |

| Company Comp | CS_OFFL_SIR_LRM_1B_20210209T070829_20210209T070845_D001 | Loss of echo | The tracking echo is missing for one or more records |
|--|---|--------------|--|
| Company Comp | | | |
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| Company Comp | | | |
| Co. Comp. Co. Comp. Co. Comp. Co. | | | · |
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| Co. OH. D. BULLUM ID. SECTION SECTIO | | | |
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| Company Comp | | | |
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| Computer | | | |
| Co. PT. Sel. May 18. 2000000000000000000000000000000000000 | | | |
| Co. OFT. SR. LWI No. 2020000000000000000000000000000000000 | | | |
| Les of etche CLL_OFFL_SKLUNN_18_202100201710030_20210030110030_2000 Loss of etche CLL_OFFL_SKLUNN_18_202100201710030_20210030110030_2000 Loss of etche CR_OFFL_SKLUNN_18_202100201710030_20210030110030_2000 Loss of etche CR_OFFL_SKLUNN_18_202100201710030_20210030110030_2000 Loss of etche CR_OFFL_SKLUNN_18_202100201710030_202100301100300_2000 Loss of etche CR_OFFL_SKLUNN_18_2021002017100300_202100301100300_20000000000000000 | | | |
| Co. C. C. C. C. C. C. C. | | | |
| CS_OFF_SR_UM_18_201009110082_2021009110082_0001 Loss of either Cs_OFF_SR_UM_18_2021009110082_202009110082_0001 Loss of either Cs_OFF_SR_UM_18_2021009110082_202009110082_00001 Loss of either Cs_OFF_SR_UM_18_2021009110082_202009110082_00001 Loss of either Cs_OFF_SR_UM_18_2021009110082_202009110082_00001 Loss of either Cs_OFF_SR_UM_18_2021009110082_202009110082_000000000000000000000000000000000 | | | |
| See OPE, SER, LAW, 18, 2020/0007115017, 2021/000711502, 2021/0007115012, 2 | | | |
| CS_OFFL_SRL_INL_18_2001000110012_0010001110012_001001 CS_OFFL_SRL_INL_18_20010001100012_001000110001_0001 CS_OFFL_SRL_INL_18_20010001100012_0010001110001_0001 CS_OFFL_SRL_INL_18_20010001100012_0010001110001_0001 CS_OFFL_SRL_INL_18_20010001100012_00100001120001_0001 CS_OFFL_SRL_INL_18_20010001100012_00010001120001_0001 CS_OFFL_SRL_INL_18_200100001100012_0000001120001_0001 CS_OFFL_SRL_INL_18_200100001100012_0000000001120000_0001 CS_OFFL_SRL_INL_18_200100001100001120000000000000000000 | | | |
| CS_OFFL_SRL_INU_18_20010001114511_20011001115451_0001 Loss of scho The tracking coto is missing for one or more records CS_OFFL_SRL_INU_18_20010001114512_20110001112541_0001 Loss of scho The tracking coto is missing for one or more records CS_OFFL_SRL_INU_18_200100011125102_201100011125101_0001 Loss of scho The tracking coto is missing for one or more records CS_OFFL_SRL_INU_18_20010001112502_20110001112501_0001 Loss of scho The tracking coto is missing for one or more records CS_OFFL_SRL_INU_18_20010001112502_20110001112501_0001 Loss of scho The tracking coto is missing for one or more records CS_OFFL_SRL_INU_18_20010001112502_20110001112501_0001 Loss of scho The tracking coto is missing for one or more records CS_OFFL_SRL_INU_18_20010001112502_2011000112500_0001 CS_OFFL_SRL_INU_18_20010001112502_20110001112500_0001 CS_OFFL_SRL_INU_18_20010001112502_2011000112500_0001 CS_OFFL_SRL_INU_18_20010001112500_20110001112500_0001 CS_OFFL_SRL_INU_18_20010001112500_0001 CS_OFFL_SRL_INU_18_20010001112500 | | | |
| CS_OFFL_SR_LRM_18_202102007112048_202100007112048_0001 CS_OFFL_SR_LRM_18_20210200712120212000712048_0001 CS_OFFL_SR_LRM_18_202102007121202_20210200712218_0001 CS_OFFL_SR_LRM_18_202102007121202_20210200712218_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712218_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712203_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712203_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712203_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712203_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712203_0001 CS_OFFL_SR_LRM_18_20210200712202_20210200712203_0001 CS_OFFL_SR_LRM_18_202102007120071200001 CS_OFFL_SR_LRM_18_202102007120071200001 CS_OFFL_SR_LRM_18_202102007120071200001 CS_OFFL_SR_LRM_18_2021020071200001 CS_OFFL_SR_LRM_18_2021020071200001 CS_OFFL_SR_LRM_18_2021020071200001 CS_OFFL_SR_LRM_18_2021020071200001 CS_OFFL_SR_LRM_18_20210200712000001 CS_OFFL_SR_LRM_18_20210200712000001 CS_OFFL_SR_LRM_18_20210200712000001 CS_OFFL_SR_LRM_18_202102007120000000000000000000000000000 | | | |
| CS_OFF_SR_LRM_18_2021003112031_2021003112031_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112031_2021003112131_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112031_2021003112131_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112223_20210031122459_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112223_20210031122459_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112223_2021003112239_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112232_2021003112232_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112234_2001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112344_2021003112432_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003112444_20210030113441_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003113401_2021003113441_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003113401_2021003113312_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003113401_2021003113312_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003113401_202100311332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003113401_202100311332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021003113401_2021003113032_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210031134032_D00103113032_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210031134032_D00103113032_D001 Loss of exho The tracking exho is mis | | | |
| CS_OFF_SR_LRM_18_20210200712116_20210200712160_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712008_20210200712151_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712008_20210200712245_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_202102007120027_20210200712245_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712202_20210200712245_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712202_202102007122452_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712472_20210200712423_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712472_20210200712423_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712472_20210200712423_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_202102007124723_D0010200712423_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712407123_D001020712433_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_20210200712407123_D001020712433_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_202102007124033_D001020712433_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_202102007124033_D0010207124033_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021020071140303_D0010207124030_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021020071140303_D0010207100071_D001027_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR_LRM_18_2021020071140303_D00102071100071_D001027_D001 Loss of exho The tracking exho is missing for one or more records CS_OFF_SR | | | |
| CS_OFF_SR_LRM_18_2021000172505_20210200172515_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210001725205_20210200172515_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210001725205_202102001725205_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210001725205_202100001725205_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210001725205_20210000172500_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000172404_20210000172403_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000173440_20210000173440_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000173440_202100001734410_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_202100001734403_202100001734410_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000173403_202100017341233_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000173403_20210001734233_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000173403_20210001734033_D001 Loss of scho The tracking act to a missing for one or more records CS_OFF_SR_LRM_18_20210000173403_20210001734033_D001 Loss of scho The tracking ect to a missing for one or more records CS_OFF_SR_LRM_18_2021000173403_20210001734033_D001 Loss of scho The tracking ect to a missing for one or more records CS_OFF_SR_LRM_18_20210001734033_D001001734033_D001 Loss of scho The tracking ect to a missing for one or more records CS_OFF_SR_LRM_18_20210001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D001001734033_D | | | |
| CS_OFFL_SIR_LRM_1B_20210207112408_202100712245_0001 CS_OFFL_SIR_LRM_1B_202102007122292_20210200712245_0001 CS_OFFL_SIR_LRM_1B_20210200712290_201000712245_0001 CS_OFFL_SIR_LRM_1B_20210200712290_201000712245_0001 CS_OFFL_SIR_LRM_1B_20210200712290_201000712240_0001 CS_OFFL_SIR_LRM_1B_20210200712290_201000712240_0001 CS_OFFL_SIR_LRM_1B_20210200712490_201000712490_0001 CS_OFFL_SIR_LRM_1B_20210200712490_201000712490_0001 CS_OFFL_SIR_LRM_1B_20210200712490_201000712490_0001 CS_OFFL_SIR_LRM_1B_20210200713440_2010000712490_0001 CS_OFFL_SIR_LRM_1B_20210200713440_2010000712490_0001 CS_OFFL_SIR_LRM_1B_20210200713440_201000713440_0001 CS_OFFL_SIR_LRM_1B_20210200713440_201000713440_0001 CS_OFFL_SIR_LRM_1B_20210200713440_201000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713430_00010000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713430_00010000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713430_00010000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713430_00010000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713430_00010000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713430_00010000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713400071340_0001000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713400071340_0001000713490_0001 CS_OFFL_SIR_LRM_1B_20210200713400071340_0001000713400000713400000713400000713400000713400007134000071340000071340000007134000007134000007134000007134000007134000 | | | |
| CS_OFFL_SIR_LRM_18_20210208712221_20210209712245_D001 CS_OFFL_SIR_LRM_18_202102087122450_20210209712245_D001 CS_OFFL_SIR_LRM_18_202102087134250_20210209713222_D001 CS_OFFL_SIR_LRM_18_20210208713424_202102097134451_D001 CS_OFFL_SIR_LRM_18_20210208713444_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134450_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134533_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_20210208713449_202102097134530_D001 CS_OFFL_SIR_LRM_18_202102087134349_200102097134530_D001 CS_OFFL_SIR_LRM_18_202102087134349_202102097134330_D001 CS_OFFL_SIR_LRM_18_202102097134349_202102097134330_D001 CS_OFFL_SIR_LRM_18_202102097134349_202102097134330_D001 CS_OFFL_SIR_LRM_18_202102097134349_202102097134330_D001 CS_OFFL_SIR_LRM_18_202102097134330_202102097134330_D001 CS_OFFL_SIR_LRM_18_20210209713430_202102097134330_D001 CS_OFFL_SIR_LRM_18_20210209713430_202102097134330_D001 CS_OFFL_SIR_LRM_18_20210209713430_202102097134330_D001 CS_OFFL_SIR_LRM_18_20210209713430_202102097134330_D001 CS_OFFL_SIR_LRM_18_20210209713430_20210209713430_D001 CS_OFFL_SIR_LRM_18_20210209713430_20210209713430_D001 CS_OFFL_SIR_LRM_18_20210209713430_20210209713430_D001 CS_OFFL_SIR_LRM_18_20210209713440_20210209713430_D001 CS_OFFL_SIR_LRM_18_20210209713440_20210209713430_D001 CS_OFFL_SIR_LRM_18_20210209713440_202102097134400_D001 CS_OFFL_SIR_LRM_18_20210209713 | | | |
| CS_OFFL_SIR_LRM_18_20210209T12450_20210209T12450_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T13402_2010209T12450_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T13404_20210209T134401_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T13404_20210209T134401_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T13404_20210209T13410_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T134018_20210209T13412_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T134018_20210209T13413_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T13413_20210209T13413_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T13413_20210209T14413_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T154132_20210209T14433_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T154132_20210209T14433_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T154323_2021009T14332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T154333_20210209T14332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T154332_20210209T14332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T15432_20210209T14332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T15432_20210209T14332_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T15432_20210209T14332_D001 Loss of exho Th | | | |
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| CS_OFFL_SIR_LRM_18_20210209T132712_20210209T134430_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T134440_20210209T13449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T134400_20210209T13449_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T134400_20210209T134433_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T14401_20210209T144333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T142733_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T142733_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T150312_20210209T142333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T150312_20210209T150310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T150312_2010209T150310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T150331_2010209T150332_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T150331_2010209T150350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T150331_2010209T150350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T160331_20210209T150350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T160338_20210209T150350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T160340_20200T160350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209T160340_20200T160350_D001 Loss of echo The tracking echo is missing for one or more records | | | |
| CS_OFFL_SIR_LRM_IB_202102009T134447_202102009T34449_D001 | | | |
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| CS_OFFL_SIR_LRM_18_202102097134618_20210209713512_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097143618_202102097143533_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097143736_202102097143533_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209714333_202102097145930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097150312_202102097150333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097150332_02102097150333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097150332_02102097150333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097150332_02102097150333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097150333_02102097150335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097150333_02102097150355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097163243_202102097162041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209716245_202102097162045_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097162046_202102097163815_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097162046_202102097163815_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097162046_202102097163857_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210209716303_202102097164050_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202102097164030_202102097164050_D001 Loss of echo The tracking echo | | | |
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| CS_OFFL_SIR_LRM_1B_20210209T164039_20210209T164100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164106_20210209T164100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164106_20210209T164121_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164251_20210209T164247_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164251_20210209T164300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164354_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164404_20210209T164411_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_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_20210209T164018_20210209T164029_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164050_20210209T164100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164106_20210209T164121_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164124_20210209T164247_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164251_20210209T164300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164354_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164404_20210209T164411_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171366_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_20210209T171600_20210209T171859_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_20210209T171600_20210209T171859_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_20210209T164033_20210209T164036_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164106_20210209T164121_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164124_20210209T164300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164354_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164404_20210209T164411_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_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_20210209T171600_20210209T1713143_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_20210209T171600_20210209T1713143_D001 Loss of echo The tracking echo is missing for one or more records | CS_OFFL_SIR_LRM_1B_20210209T164039_20210209T164046_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164124_20210209T164247_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164251_20210209T164300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164354_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164404_20210209T164411_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_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_20210209T164050_20210209T164100_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164304_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164354_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164404_20210209T164411_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T172005_20210209T173143_D001 Loss of echo The tracking echo is missing for one or more records | CS_OFFL_SIR_LRM_1B_20210209T164106_20210209T164121_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164303_20210209T164354_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_20210209T164124_20210209T164247_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164404_20210209T164411_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_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T172005_20210209T173143_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_20210209T164251_20210209T164300_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_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_20210209T164303_20210209T164354_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T172005_20210209T173143_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_20210209T164404_20210209T164411_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210209T172005_20210209T173143_D001 Loss of echo The tracking echo is missing for one or more records | CS_OFFL_SIR_LRM_1B_20210209T164413_20210209T164428_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T172005_20210209T173143_D001 Loss of echo The tracking echo is missing for one or more records | CS_OFFL_SIR_LRM_1B_20210209T170431_20210209T171346_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | CS_OFFL_SIR_LRM_1B_20210209T171600_20210209T171859_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T173733_20210209T173956_D001 Loss of echo The tracking echo is missing for one or more records | | | |
| | CS_OFFL_SIR_LRM_1B_20210209T173733_20210209T173956_D001 | Loss of echo | The tracking echo is missing for one or more records |

| CS OFFL SIR LRM 1B 20210209T175437 20210209T180134 D001 | Loss of echo | The tracking echo is missing for one or more records |
|--|--------------|--|
| CS OFFL SIR LRM 1B 20210209T180314 20210209T181759 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T181802_20210209T181804_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20210209T181806 20210209T181810 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T181814_20210209T181819_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T181824_20210209T181829_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T181832_20210209T181842_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20210209T181916 20210209T182420 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20210209T182423 20210209T182500 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20210209T184005 20210209T184318 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS OFFL SIR LRM 1B 20210209T184837 20210209T185325 D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T191520_20210209T192401_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_20210209T194943_20210209T195002_D001 CS_OFFL_SIR_LRM_1B_20210209T195614_20210209T195620_D001 | Loss of echo | The tracking echo is missing for one or more records |
| | Loss of echo | |
| CS_OFFL_SIR_LRM_1B_20210209T195624_20210209T195625_D001 | | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T195627_20210209T195642_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T195646_20210209T195658_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T195700_20210209T195717_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T195722_20210209T195727_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T195729_20210209T195932_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T201717_20210209T205209_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T210439_20210209T213032_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T213034_20210209T213239_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T213242_20210209T213438_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T213544_20210209T213852_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T213852_20210209T214053_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T220117_20210209T220155_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T224403_20210209T230315_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T230318_20210209T231121_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T231214_20210209T231217_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T231224_20210209T231322_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T231512_20210209T231607_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T231607_20210209T231625_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T231659_20210209T231831_D001 | Loss of echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_LRM_1B_20210209T232036_20210209T232119_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.

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Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors: 0

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

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.

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:

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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_220210209T000001_20210209T000122_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_220210209T002641_20210209T010103_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_220210209T011315_20210209T013319_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_220210209T013633_20210209T014135_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_220210209T014214_20210209T014342_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_220210209T020459_20210209T022724_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_220210209T022748_20210209T023848_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_220210209T025234_20210209T032131_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_220210209T034729_20210209T035558_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_220210209T040039_20210209T040200_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_220210209T040212_20210209T041339_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_220210209T043622_20210209T044406_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_220210209T045112_20210209T050300_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_220210209T053031_20210209T054002_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_220210209T054238_20210209T055736_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_220210209T063220_20210209T063450_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_220210209T063613_20210209T064003_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_220210209T070454_20210209T070551_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220210209T070829_20210209T070845_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| | | |

| CS_OFFL_SIR_LRM_220210209T071939_20210209T073648_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_220210209T074947_20210209T081329_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_220210209T085012_20210209T091628_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_220210209T092855_20210209T095712_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_220210209T095838_20210209T100150_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_220210209T102829_20210209T105559_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_20210209T110812_20210209T114322_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_220210209T115731_20210209T115821_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_220210209T124803_20210209T131045_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_220210209T131331_20210209T132246_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_220210209T133504_20210209T133904_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_220210209T134430_20210209T134452_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_220210209T135451_20210209T135936_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_220210209T140124_20210209T141441_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_220210209T142726_20210209T143333_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_220210209T143343_20210209T145939_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_220210209T152518_20210209T154912_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_220210209T161427_20210209T162011_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_220210209T162346_20210209T162505_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_220210209T162945_20210209T163615_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_220210209T170431_20210209T171346_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_220210209T172005_20210209T173143_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_220210209T175437_20210209T180134_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_220210209T180314_20210209T181759_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_220210209T183738_20210209T183843_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220210209T184005_20210209T184318_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_220210209T184449_20210209T184714_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_220210209T184837_20210209T185325_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_20210209T185612_20210209T191249_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_220210209T192620_20210209T194854_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_220210209T201717_20210209T205209_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_220210209T210439_20210209T213032_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_220210209T213034_20210209T213239_D001 | Surface Model Unavailable | No DEM or Slope Model was used for the location of one or more records |
| CS_OFFL_SIR_LRM_220210209T220117_20210209T220155_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_220210209T220315_20210209T223131_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_220210209T224403_20210209T230315_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_220210209T230318_20210209T231121_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_220210209T232036_20210209T232119_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_20210209T233505_20210210T001008_D001 | Height Error (Retracker 2), Backscatter Error (Retracker 2) | There is a height and backscatter error for Retracker 2 for one or more records |

6. QCC Report Analysis

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

| Product type | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_LRM_1B | 208 | 208 | 208 | 0 | 0 |
| SIR_SAR_1B | 139 | 139 | 139 | 0 | 0 |
| SIR_SIN_1B | 111 | 111 | 111 | 0 | 0 |
| SIR_LRM_2 | 208 | 208 | 201 | 7 | 0 |
| SIR_SAR_2 | 111 | 139 | 139 | 0 | 0 |
| SIR_SIN_2 | 139 | 111 | 111 | 0 | 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) | | |
| STRUCTURESIZEANDR STRUCTURE_SIZE_AND_READ | | Under investigation. | | |

6.2 QCC Warnings

Number of QCC reports with warnings

7

| Total | numbor | ۸f | occurrences | ۸f | oach | warning | |
|--------|--------|----|-------------|----|------|---------|--|
| i otai | number | Οī | occurrences | Οī | eacn | warning | |

| Product Type | AXSMMEOCI | - | • | - | • | - | - |
|--------------|-----------|---|---|---|---|---|---|
| SIR_LRM_2_ | 7 | | | | | | |
| 0 | | | | | | | |

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

6.2 Missing QCC Reports

Number of products with missing QCC reports:

0