

18/08/2021



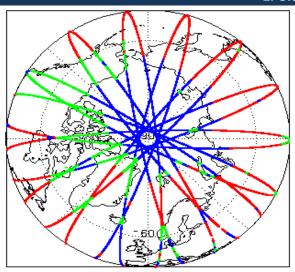
1. Overview

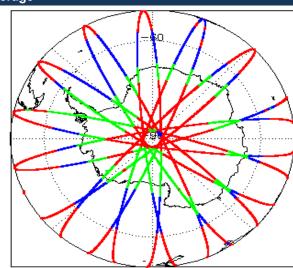
Report Production Date:	21-Sep-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

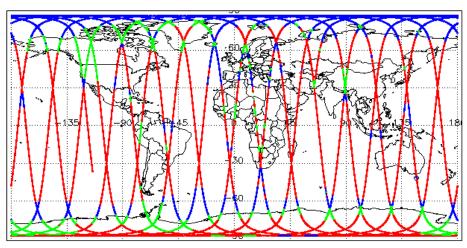
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

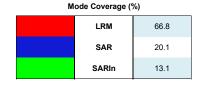
Mission / Instrument News				
17-Aug-2021	None			
18-Aug-2021	None			
19-Aug-2021	Nothing planned			

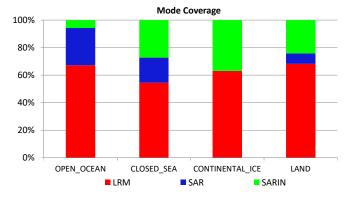
2. Global Coverage

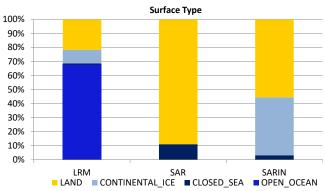












3. Instrument Configuration

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:

0

4.3 Star Tracker Usage Check

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

Number of products with errors:

.

4.4 L1B Tracking Flags Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210818T001954_20210818T002018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T002217_20210818T002229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T003955_20210818T004630_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T004641_20210818T004910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T004912_20210818T011514_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T012334_20210818T012704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T021628_20210818T022021_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T022149_20210818T022358_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T022431_20210818T022528_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T022717_20210818T022741_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T022946_20210818T023747_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T023841_20210818T024239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T024401_20210818T024743_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T033451_20210818T034618_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T040327_20210818T040456_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T040726_20210818T041252_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T043803_20210818T044257_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T045009_20210818T052231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T052233_20210818T052616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T062949_20210818T063506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T063514_20210818T063609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T063611_20210818T064504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T064507_20210818T064626_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T065107_20210818T065849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T065918_20210818T070251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T070253_20210818T070522_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T073723_20210818T075139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T075902_20210818T080117_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T080846_20210818T082255_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T082434_20210818T084047_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T084105_20210818T084518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T085826_20210818T090958_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T091002_20210818T091213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T091216_20210818T091218_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T091220_20210818T091416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T091421_20210818T091428_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T101541_20210818T101619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T101728_20210818T102406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T103616_20210818T103647_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T103703_20210818T104359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T104616_20210818T111218_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFF_SR_LNN_18_202108187113000_002108187130200_0001 CS_OFF_SR_LNN_18_20210818713000_002108187130200_0001 CS_OFF_SR_LNN_18_202108187130177_002108187130200_0001 CS_OFF_SR_LNN_18_202108187130177_002108187130200_0001 CS_OFF_SR_LNN_18_202108187130177_002108187130230_0001 CS_OFF_SR_LNN_18_20210818713013_00010818713013_0001 CS_OFF_SR_LNN_18_20210818713013_0001081713018_0001 CS_OFF_SR_LNN_18_20210818713018_0001 CS_OFF_SR_LNN_18_20210818715018_0001 CS_OFF_SR_LNN_18_20210818715018_0001 CS_OFF_SR_LNN_18_20210818715018_0001 CS_OFF_SR_LNN_18_20210818715018_0001 CS_OFF_SR_LNN_18_20210818715151_001 CS_OFF_SR_LNN_18_20210818715151_001 CS_OFF_SR_LNN_18_20210818715151_001 CS_OFF_SR_LNN_18_20210818715151_001 CS_OFF_SR_LNN_18_20210818715151_001 CS_OFF_SR_LNN_18_20210818715151_001 CS_OFF_SR_LNN_18_20210818715101_001 CS_OFF_SR_LNN_18_2021081871510002_001 CS_OFF_SR_LNN_18_2021081871510002_001 CS_OFF_SR_LNN_18_2021081871510002_001 CS_OFF_SR_LNN_18_2021081871510002_001 CS_OFF_SR_LNN	CS OFFL SIR LRM 1B 20210818T111845 20210818T112333 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202108187120038_20210818713939_D001	CS_OFFL_SIR_LRM_1B_20210818T113020_20210818T115236_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_202108187139717_202108187139433_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187139332_20210818713978_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187139332_20210818713978_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187139332_20210818714006_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187143915_20210818714006_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187145915_20210818714006_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187145902_20210818714006_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_2021081871459022_20210818714006_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818715002_20210818715004_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187151612_20210818716000_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187151612_20210818715162_00001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187151612_2021081871516100_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187151612_202108187151610_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818715032_202108187164420_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187163324_202108187164420_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818716400_202108187164420_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_202108187100001 Loss of echo The tracking echo is mi	CS_OFFL_SIR_LRM_1B_20210818T115359_20210818T120036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T132913_20210818T133433_D001 CS_OFFL_SIR_LRM_18_20210818T133385_20210818T133738_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T133373_20210818T133738_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T133382_20210818T133738_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T145315_20210818T150148_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T145315_20210818T150148_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151501_20210818T150148_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151512_2010818T151512_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1515151_20210818T1515103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151512_2010818T151512_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151513_20210818T151512_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151511_20210818T1515101_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151011_20210818T151011_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15011_20210818T15010001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1302_20210818T106052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1302_20210818T160505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T16052_20210818T10002_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T120036_20210818T120332_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T133738_2010818T133738_0001 CS_OFFL_SIR_LRM_18_20210818T133738_2010818T133738_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T133738_2010818T133748_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T145315_20210818T15048_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T150522_20210818T15048_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15004_20210818T15048_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T150104_20210818T15002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T150104_20210818T15002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T150104_20210818T15002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15011_20210818T15002_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15032_0010818T150001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15032_00210818T164020_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T160004_00210818T160009_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T160004_00210818T160009_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1600000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20210818T130717_20210818T132905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202108187133752_0210818713400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818713352_0210818713400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187143515_0221081871546709_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818715002_20210818715045_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818715002_20210818715102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187151002_20210818715102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187151012_02210818715102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187151012_202108187151602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187151631_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818715585_202108187151600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818715382_20210818716400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818716380_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818716400_202108187166000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187190732_202108187190001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818718222_202108187190001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818718222_202108187190001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202108187190734_202108187190001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2021	CS_OFFL_SIR_LRM_1B_20210818T132913_20210818T133433_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T133822_20210818T150148_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T145315_20210818T150148_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T150525_20210818T150451_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151052_20210818T150451_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151052_20210818T151052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151612_20210818T151831_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151831_20210818T151831_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151831_20210818T151831_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151832_20210818T151918_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151832_20210818T154919_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151832_20210818T154919_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T163824_20210818T164429_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T171302_20210818T165099_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T171302_20210818T185228_20210818T165099_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T195228_20210818T185228_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T195328_D010818T195334_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T196	CS_OFFL_SIR_LRM_1B_20210818T133635_20210818T133736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T145315_20210818T145708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T145815_20210818T150451_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15104_20210818T150451_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T151551_20210818T151602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1515151_20210818T151602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1515131_D001081751602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1515151911_D00181751602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T15151911_D001881751918_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1653552_20210818T1545192_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T1635552_20210818T164429_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T163559_20210818T164429_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T16559_20210818T164020_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T18520_D001881785224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T18520_D001881785224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T194559_20210818T195559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T194559_20210818T195559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T20559_20210818T195559_D001 Loss of echo The tracking	CS_OFFL_SIR_LRM_1B_20210818T133736_20210818T133748_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T145815_20210818T15014B_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151002_0210818T15102D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151512D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151512D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151612_20210818T15168D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T1515191_20210818T15168D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151591_20210818T15168D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T153558_20210818T16442D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T16322D_20210818T16442D_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T16460A_20210818T164059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T16450B_0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T1640D_0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T16452D_0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T1940D_0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194452D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194452D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194452D_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T2164D_00101 Loss of echo The tracking echo is missing for one or	CS_OFFL_SIR_LRM_1B_20210818T133822_20210818T134006_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T150252_20210818T150451_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151612_20210818T1516102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151612_20210818T1516102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151612_20210818T151680_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151612_20210818T151619_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151911_20210818T151918_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T153528_20210818T16409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T163628_20210818T16409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T174302_D01818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T18524_D0101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T195734_D010818T195453_D011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T205459_20210818T195559_D011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200020_0210818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220162_0210818T214550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220162_021081	CS_OFFL_SIR_LRM_1B_20210818T145315_20210818T145709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210818T151004_20210818T15102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T151631_20210818T151630_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T151631_20210818T151650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T151631_20210818T151650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T1513558_20210818T154519_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T163358_20210818T164429_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T163824_20210818T164429_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T18328_20210818T174801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T185120_20210818T174801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T18522_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T19328_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T194528_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T194559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T195559_20210818T195459_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T20113_20210818T201507_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T200113_20210818T201507_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210818T220464_20210818T221509_D001 Loss of echo The tracking echo is missing	CS_OFFL_SIR_LRM_1B_20210818T145815_20210818T150148_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T151551_20210818T151602_D001	CS_OFFL_SIR_LRM_1B_20210818T150252_20210818T150451_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T151612_20210818T151631_D001	CS_OFFL_SIR_LRM_1B_20210818T151004_20210818T151122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T151631_20210818T15191B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T151911_20210818T15191B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T1535S8_20210818T154519_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T163824_20210818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T16302_20210818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185222_20210818T19602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185223_20210818T196002_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T190734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T195659_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20012_20210818T201503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20000_20210818T201503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20000_20210818T201503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20000_20210818T201500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20000_20210818T201500_D001 Loss of echo The tracking ec	CS_OFFL_SIR_LRM_1B_20210818T151551_20210818T151602_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T151911_20210818T154519_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T163824_20210818T164429_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T164604_20210818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T1740604_20210818T1765059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T174002_D01818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185102_D01818T16502_D01818T16502_D01818T16502_D01818T16502_D01818T16502_D01818T16502_D01818T16502_D01818T16502_D01818T165028_D01818T165028_D01818T16502_D01818T165028_D01818T165028_D01818T165028_D01818T165028_D01818T16503_D0191 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T19559_D011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T201815959_D011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T201815_D01818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T201818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221614_201818T21505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221609_D01818T21505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221609_D018T21509_D011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_D018T	CS_OFFL_SIR_LRM_1B_20210818T151612_20210818T151631_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T153558_20210818T164519_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T163824_20210818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T164604_20210818T174801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T165120_20210818T174801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T195559_20210818T195559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T205013_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220614_20210818T20503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T21505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T23500_20210818T221546_D001 Loss of echo The tracking echo is missin	CS_OFFL_SIR_LRM_1B_20210818T151631_20210818T151650_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210818T163824_20210818T164642_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T164604_20210818T165059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T185120_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T185120_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T190734_20210818T199734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T190734_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T194458_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T195559_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T201013_20210818T195559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T200113_20210818T201057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T2030202_02010818T201503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T212614_20210818T221505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T2120846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T2230105_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T230105_20210818T232546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T230105_20210818T232501 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210818T235002_20210818T2353131_D001 Loss of echo The tracki	CS_OFFL_SIR_LRM_1B_20210818T151911_20210818T151918_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T164604_20210818T174801_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185228_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194582_2010818T195559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20013_2010818T195559_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20013_2010818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T20010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T200103_D0010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T21505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221504_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221506_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T23505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T23649_20210818T2353131_D001 Loss of echo The tracking echo is	CS_OFFL_SIR_LRM_1B_20210818T153558_20210818T154519_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T171302_20210818T185224_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T185228_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194458_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T19559_20210818T195859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T20012_022010818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T2124727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221544_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T23002_20210818T2355131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T2355131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235188_20210818T235523_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235188_20210818T235523_D001 Loss of echo The trac	CS_OFFL_SIR_LRM_1B_20210818T163824_20210818T164429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T195224_D001 CS_OFFL_SIR_LRM_1B_20210818T195228_20210818T190602_D001 CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 CS_OFFL_SIR_LRM_1B_20210818T194458_20210818T192734_D001 CS_OFFL_SIR_LRM_1B_20210818T194458_20210818T195453_D001 CS_OFFL_SIR_LRM_1B_20210818T195559_20210818T195559_D001 CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001 CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T205103_D001 CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T215705_D001 CS_OFFL_SIR_LRM_1B_20210818T203046_20210818T221502_D001 CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221504_D001 CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T223546_D001 CS_OFFL_SIR_LRM_1B_20210818T23546_20210818T232850_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235500_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T23553131_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235732_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_LRM_1B_20210818T23544_20210818T235733_D001 CS_OFFL_SIR_	CS_OFFL_SIR_LRM_1B_20210818T164604_20210818T165059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T185228_20210818T190602_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194458_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T195559_20210818T195859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T21452_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_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T223646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T2328640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T233503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T235131_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_20210818T171302_20210818T174801_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T190734_20210818T192734_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T194458_20210818T195453_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more record	CS_OFFL_SIR_LRM_1B_20210818T185120_20210818T185224_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T194458_20210818T195453_D001 CS_OFFL_SIR_LRM_1B_20210818T20559_20210818T195859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T2205046_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The	CS_OFFL_SIR_LRM_1B_20210818T185228_20210818T190602_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T195559_20210818T195859_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_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_20210818T235002_20210818T235131_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_20210818T190734_20210818T192734_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_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_20210818T235148_20210818T23573_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_20210818T194458_20210818T195453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_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_20210818T235002_20210818T235131_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_20210818T235148_20210818T235733_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_20210818T235148_20210818T235733_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T195559_20210818T195859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_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_20210818T235148_20210818T235733_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_20210818T235148_20210818T235733_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T200113_20210818T201657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_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_20210818T235002_20210818T235131_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_20210818T235148_20210818T235723_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T203020_20210818T205103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T220846_20210818T221502_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T212614_20210818T214452_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T221509_20210818T221534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_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_20210818T235148_20210818T235723_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T221536_20210818T221646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T235723_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_20210818T220846_20210818T221502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_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_20210818T235148_20210818T235723_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_20210818T221509_20210818T221534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T235723_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_20210818T221536_20210818T221646_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T235723_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T230105_20210818T232646_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T235723_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T232649_20210818T232850_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210818T235002_20210818T235131_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210818T235725_20210818T235833_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210818T235148_20210818T235723_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210818T235725_20210818T235833_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: 0

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: 0

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210818T085826_20210818T090958_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210818T103703_20210818T104359_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210818T115359_20210818T120036_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210818T214727_20210818T215705_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

0

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: 66		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210817T235137_20210818T001758_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210818T001954_20210818T002018_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_220210818T003955_20210818T004630_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210818T004912_20210818T011514_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_220210818T013155_20210818T020459_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20210818T021628_20210818T022021_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_220210818T031102_20210818T033205_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_220210818T033451_20210818T034618_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_220210818T035614_20210818T040000_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_220210818T040726_20210818T041252_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_220210818T042246_20210818T043250_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_220210818T045009_20210818T052231_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_220210818T052233_20210818T052616_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_220210818T053651_20210818T053726_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_220210818T054401_20210818T054615_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_220210818T054740_20210818T061036_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

	1	
CS_OFFL_SIR_LRM_220210818T062949_20210818T063506_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_220210818T063514_20210818T063609_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_220210818T063611_20210818T064504_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_220210818T064507_20210818T064626_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_220210818T065107_20210818T065849_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_220210818T065918_20210818T070251_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_220210818T071943_20210818T073510_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_220210818T073723_20210818T075139_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_220210818T080846_20210818T082255_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_220210818T082434_20210818T084047_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_220210818T085826_20210818T090958_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_220210818T091002_20210818T091213_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_220210818T091421_20210818T091428_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210818T091901_20210818T093240_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_220210818T094846_20210818T101024_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_220210818T101728_20210818T102406_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210818T103616_20210818T103647_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_220210818T103703_20210818T104359_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_220210818T104616_20210818T111218_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_220210818T113020_20210818T115236_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_220210818T120036_20210818T120332_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_220210818T122513_20210818T125037_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_220210818T130717_20210818T132905_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_220210818T134111_20210818T134510_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_220210818T135651_20210818T142948_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_220210818T144626_20210818T144749_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_220210818T152019_20210818T152425_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_220210818T153558_20210818T154519_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_220210818T154804_20210818T160917_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_220210818T162649_20210818T163636_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_220210818T163824_20210818T164429_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_220210818T164604_20210818T165059_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_220210818T171302_20210818T174801_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_220210818T180716_20210818T183832_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_220210818T185120_20210818T185224_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210818T185228_20210818T190602_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_220210818T190734_20210818T192734_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_220210818T194458_20210818T195453_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_220210818T200113_20210818T201657_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_220210818T203020_20210818T205103_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_220210818T205242_20210818T210615_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_220210818T212614_20210818T214452_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_220210818T214727_20210818T215705_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_220210818T215730_20210818T215752_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_220210818T221536_20210818T221646_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210818T222342_20210818T224432_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_220210818T230105_20210818T232646_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_220210818T232649_20210818T232850_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210818T235002_20210818T235131_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_220210818T235725_20210818T235833_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of 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	142	142	142	0	0
SIR_SAR_1B	109	109	109	0	0
SIR_SIN_1B	108	108	108	0	0
SIR_LRM_2	142	142	132	10	0
SIR_SAR_2	108	109	109	0	0
SIR_SIN_2	109	108	106	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

Total number of occurrences of each warning

		Total name of occasioning						
	Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	•	•	
ſ	SIR_GDR_2_	0	1	0	0			
	SIR LRM 2	0	9	1	1			

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

6.2 Missing QCC Reports

Number of products with missing QCC reports:

14

Product name
CS_OFFL_SIR_GDR_2__20210818T231854_20210819T005809_D002