

12/08/2021



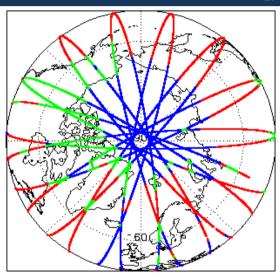
1. Overview

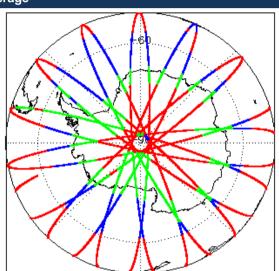
Report Production Date:	14-Sep-2021	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

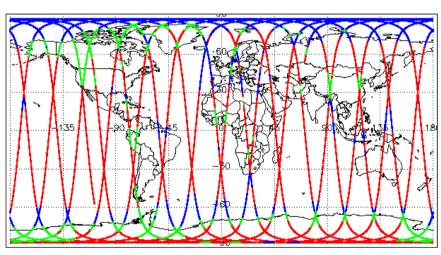
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

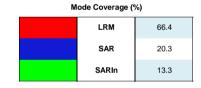
Mission / Instr	lission / Instrument News				
11-Aug-2021 None					
12-Aug-2021	None				
13-Aug-2021	Nothing planned				

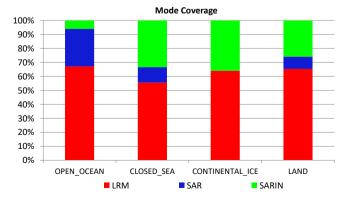
2. Global Coverage

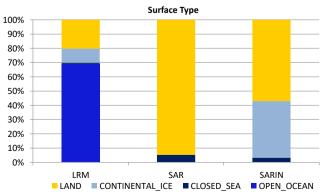












3. Instrument Configuration

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:

0

4.4 L1B Tracking Flags Check

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

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

Number of products with errors:

92

Co. PFL_SRL_RNL_18_202108127004510_20108127004505_D011	Product	Test Failed	Description
CS. OFFL. SIR. LRM. 18. 202108127002917. 202108127012050. Doi: 1 CS. OFFL. SIR. LRM. 18. 20210812702921. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 20210812702921. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127029212. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127029212. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020322. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020322. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020322. 20210812702050. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 202108127020353. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 20210812702035. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 202108127020355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 202108127020355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 202108127020355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020352. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020362. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020362. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020362. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020362. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020362. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127020362. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127030352. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM. 18. 202108127030352. 202108127030355. Doi: 1 CS. OFFL. SIR. LRM.	CS_OFFL_SIR_LRM_1B_20210812T004610_20210812T005428_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL_SRL_LRN_18_20210812702281_20210812702285_D001 CS. OFFL_SRL_LRN_18_20210812702291_20210812702285_D001 CS. OFFL_SRL_LRN_18_20210812702291_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702291_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702295_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702295_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702295_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702295_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702295_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702495_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702495_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812702495_20210812702295_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703495_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812703403_20210812703515_D001 CS. OFFL_SRL_LRN_18_20210812704103_20210812704103_D001 CS. OFFL_SRL_LRN_18_20210812704103_20210812704103_D001 CS. OFFL_SRL_LRN_18_2021081270459_20210812704103_D001 CS. OFFL_SRL_LRN_18_2021081270459_20210812705318_D001 CS. OFFL_SRL_LRN_18_20210812704593_20210812705318_D001 CS. OFFL_SRL_LRN_18_20210812704593_20210812705318_D001 CS. OFFL_SRL_LRN_18_20210812704593_20210812705318_D001 CS. OFFL_SRL_LRN_18_20210812704593_20210812705319_D001 CS. OFFL_SRL_LRN_18_202108127045	CS_OFFL_SIR_LRM_1B_20210812T005430_20210812T005715_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL. SIR. LRM. 18. 202108127022216, 20210812702235, D001 CS. OFFL. SIR. LRM. 18. 202108127022312, 202108127022359, D001 CS. OFFL. SIR. LRM. 18. 202108127023345, 20210812702353, D001 CS. OFFL. SIR. LRM. 18. 202108127023345, 20210812702353, D001 CS. OFFL. SIR. LRM. 18. 202108127023345, 20210812702353, D001 CS. OFFL. SIR. LRM. 18. 202108127023345, 202108127023514, D001 CS. OFFL. SIR. LRM. 18. 20210812702353, 202108127023514, D001 CS. OFFL. SIR. LRM. 18. 20210812702353, 202108127023517, D001 CS. OFFL. SIR. LRM. 18. 20210812702353, 202108127023515, D001 CS. OFFL. SIR. LRM. 18. 20210812703353, 20210812703515, D001 CS. OFFL. SIR. LRM. 18. 20210812703452, 20210812704052, D001 CS. OFFL. SIR. LRM. 18. 20210812704053, 20210812704053, D001 CS. OFFL. SIR. LRM. 18. 20210812704053, 20210812704053, D001 CS. OFFL. SIR. LRM. 18. 20210812704054, 20210812704053, D001 CS. OFFL. SIR. LRM. 18. 20210812704054, 20210812705135, D001 CS. OFFL. SIR. LRM. 18. 20210812704553, 20210812705458, D001 CS. OFFL. SIR. LRM. 18. 20210812704558, 20210812705459, D001 CS. OFFL. SIR. LRM. 18. 2021081270538, 20210812705459, D001 CS. OFFL. SIR. LRM. 18. 2021081270539, 20210812705539, D001 CS. OFFL. SIR. LRM. 18. 2021081270539, 20210812705539, D001 CS. OFFL. SIR. LRM. 18. 2021081270539, 20210812705539, D001 CS. OFFL. SIR. LRM. 18. 20210812705539, 20210812705539,	CS_OFFL_SIR_LRM_1B_20210812T005717_20210812T012055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812702720_20210812702294_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812702368_20210812702355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812702368_2021081270235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812702368_20210812702351_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812702368_2021081270331_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812703483_20210812703945_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812703493_20210812703945_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812703493_20210812703495_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812703493_20210812703495_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812704058_20210812704091_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812704058_20210812704091_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812704439_202108127044442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812704349_202108127044442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812704349_202108127044442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812706359_202108127064442_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812706359_202108127064444_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812706359_20210812706459_D001 Loss of echo The tracking echo is missing for one or	CS_OFFL_SIR_LRM_1B_20210812T012921_20210812T013250_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL_SIR_LRM_1B_20210812702245_20210812702358_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812702354_202108127023514_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812702354_202108127023514_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_202108127023545_202108127023515_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_202108127033459_202108127033055_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_202108127033439_202108127033055_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812703439_202108127030555_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812704059_20210812704015_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812704013_20210812704015_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812704013_20210812704015_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812704013_20210812704015_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812704013_20210812704015_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_2021081270432_20210812704015_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812706355_20210812706405_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812706355_20210812706605_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812706355_20210812706305_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LRM_1B_20210812706303_20210812706301_D001 Loss of echo The tracking echo	CS_OFFL_SIR_LRM_1B_20210812T022216_20210812T022635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20210812T023245_20210812T023353_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T023368_20210812T023511_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T023512_20210812T023517_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T023512_20210812T023517_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T03033_20210812T035155_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T03033_20210812T035155_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T040852_20210812T040919_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T04103_20210812T0410919_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T04103_20210812T04105_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T04103_20210812T044943_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T043492_20210812T0344943_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T043593_20210812T035138_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T043593_20210812T055138_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T065692_20210812T065010_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T065692_20210812T065010_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T065692_20210812T065010_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210812T065032_20210812T065033_D001 Loss of ex	CS_OFFL_SIR_LRM_1B_20210812T022720_20210812T022940_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL. SIR. LRM. 18, 20210812T023656, 20210812T024514, D001 CS. OFFL. SIR. LRM. 18, 20210812T024554, 20210812T025314, D001 CS. OFFL. SIR. LRM. 18, 20210812T024554, 20210812T025314, D001 CS. OFFL. SIR. LRM. 18, 20210812T0204554, 20210812T025315, D001 CS. OFFL. SIR. LRM. 18, 20210812T020433, 20210812T035155, D001 CS. OFFL. SIR. LRM. 18, 20210812T024033, 20210812T035155, D001 CS. OFFL. SIR. LRM. 18, 20210812T024033, 20210812T0245150, D001 CS. OFFL. SIR. LRM. 18, 20210812T024033, 20210812T0245150, D001 CS. OFFL. SIR. LRM. 18, 20210812T024035, 20210812T0245150, D001 CS. OFFL. SIR. LRM. 18, 20210812T024035, 20210812T0245150, D001 CS. OFFL. SIR. LRM. 18, 20210812T024035, 20210812T0245150, D001 CS. OFFL. SIR. LRM. 18, 20210812T024524, 20210812T024545, D001 CS. OFFL. SIR. LRM. 18, 20210812T024555, 20210812T024545, D001 CS. OFFL. SIR. LRM. 18, 20210812T024555, 20210812T024545, D001 CS. OFFL. SIR. LRM. 18, 20210812T02555, 20210812T02555, D001 CS. OFFL. SIR. LRM. 18, 20210812T02555, 20210812T02557, D001 CS. OFFL. SIR. LRM. 18, 20210812T02559, 20210812T02557, D001 CS. OFFL. SIR. LRM. 18, 20210812T02559, 20210812T02557, D001 CS. OFFL. SIR. LRM. 18, 2	CS_OFFL_SIR_LRM_1B_20210812T023013_20210812T023059_D001	Loss of echo	The tracking echo is missing for one or more records
CS, OFFL_SR_LRM_1B, 20210812T024554, 20210812T025314, D001 CS, OFFL_SR_LRM_1B, 20210812T025316, 20210812T025317, D001 CS, OFFL_SR_LRM_1B, 20210812T0245316, 20210812T035515, D001 CS, OFFL_SR_LRM_1B, 20210812T034083, 20210812T03555, D001 CS, OFFL_SR_LRM_1B, 20210812T040638, 20210812T0340642, D001 CS, OFFL_SR_LRM_1B, 20210812T040638, 20210812T040642, D001 CS, OFFL_SR_LRM_1B, 20210812T040589, 20210812T040645, D001 CS, OFFL_SR_LRM_1B, 20210812T04342, 20210812T044643, D001 CS, OFFL_SR_LRM_1B, 20210812T04359, 20210812T045053, D001 CS, OFFL_SR_LRM_1B, 20210812T045549, 20210812T04645, D001 CS, OFFL_SR_LRM_1B, 20210812T045559, 20210812T046455, D001 CS, OFFL_SR_LRM_1B, 20210812T045559, 20210812T046455, D001 CS, OFFL_SR_LRM_1B, 20210812T045559, 20210812T055918, D001 CS, OFFL_SR_LRM_1B, 20210812T05558, 20210812T055918, D001 CS, OFFL_SR_LRM_1B, 20210812T055938, 20210812T055918, D001 CS, OFFL_SR_LRM_1B, 20210812T055939, 20210812T055918, D001 CS, OFFL_SR_LRM_1B, 20210812T056592, 20210812T056918, D001 CS, OFFL_SR_LR	CS_OFFL_SIR_LRM_1B_20210812T023245_20210812T023353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210812T025316_20210812T03094b_D001 CS_OFFL_SIR_LRM_IB_20210812T030316_20210812T030904b_D001 CS_OFFL_SIR_LRM_IB_20210812T030316_20210812T030904b_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T04033_20210812T04064b_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T040858_20210812T04064b_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T040153_20210812T04019_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T041013_202210812T041015_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T04300_20210812T04409_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T045349_20210812T053139_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T045349_20210812T053139_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T05358_20210812T05349_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T05358_20210812T056749_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T05358_20210812T056781_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T05538_20210812T0567819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T055083_20210812T056519_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T055083_20210812T056591_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T056582_20210812T076572_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T084328_20210812T068579_D001 Loss	CS_OFFL_SIR_LRM_1B_20210812T023636_20210812T024514_D001	Loss of echo	The tracking echo is missing for one or more records
CS, OFFL_SIR_LRM_18, 20210812T034033, 20210812T0335156, D001 CS, OFFL_SIR_LRM_18, 20210812T040353, 20210812T040642_D001 CS, OFFL_SIR_LRM_18, 20210812T040353, 20210812T040919, D001 CS, OFFL_SIR_LRM_18, 20210812T041013, 20210812T041015, D001 CS, OFFL_SIR_LRM_18, 20210812T041039, 20210812T041015, D001 CS, OFFL_SIR_LRM_18, 20210812T041309, 20210812T041010, D001 CS, OFFL_SIR_LRM_18, 20210812T041309, 20210812T041909, D001 CS, OFFL_SIR_LRM_18, 20210812T041309, 20210812T041909, D001 CS, OFFL_SIR_LRM_18, 20210812T041309, 20210812T041909, D001 CS, OFFL_SIR_LRM_18, 20210812T045242, 20210812T045309, D001 CS, OFFL_SIR_LRM_18, 20210812T045242, 20210812T05318, D001 CS, OFFL_SIR_LRM_18, 20210812T065358, 20210812T065749, D001 CS, OFFL_SIR_LRM_18, 20210812T065559, 20210812T065749, D001 CS, OFFL_SIR_LRM_18, 20210812T065539, 20210812T06579, D001 CS, OFFL_SIR_LRM_18, 20210812T065509, 20210812T06579, D001 CS, OFFL_SIR_LRM_18, 20210812T065038, 20210812T065039, D001 CS, OFFL_SIR_LRM_18, 20210812T065039, 20210812T065018, D001 CS, OFFL_SIR_LRM_18, 20210812T065039, 20210812T065039, D001 CS, OFFL_SIR_LRM_18, 20210812T065039, 20210812T065039, D001 CS, OFFL_SIR_LRM_18, 20210812T065039, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T065652, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T065652, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T0765539, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T0764439, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T076439, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T076439, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T076439, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T08439, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T08439, 20210812T076579, D001 CS, OFFL_SIR_LRM_18, 20210812T08	CS_OFFL_SIR_LRM_1B_20210812T024554_20210812T025314_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210812T040638_20210812T040691_D001	CS_OFFL_SIR_LRM_1B_20210812T025316_20210812T025317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210812T040858_20210812T040910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T040838_20210812T040915_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T04339_20210812T041015_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T04339_20210812T044945_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T045342_20210812T045495_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T045549_20210812T05338_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065595_20210812T065318_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065595_20210812T065018_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065035_20210812T065018_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065035_20210812T065018_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065038_20210812T065018_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065038_20210812T005037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T074309_20210812T07537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T074309_20210812T075737_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T084048_20210812T084050_L001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T084048_20210812T084050_L001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T084048_20210812T084050_L001 Loss of e	CS_OFFL_SIR_LRM_1B_20210812T030418_20210812T030945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T040858_20210812T040919_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T041013_20210812T044905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T044302_20210812T044943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T045549_20210812T044943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T045549_20210812T062749_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065562_0210812T062749_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0656562_0210812T066455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0656021_20210812T065010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065032_0210812T065010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065032_0210812T065010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065032_0210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0704309_20210812T0707572_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070409_20210812T087042D01 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T080433_20210812T080702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T080433_20210812T080702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T080422_20210812T08050_D001 Loss of echo The tracking echo is missing	CS_OFFL_SIR_LRM_1B_20210812T034033_20210812T035155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210812T041013_20210812T041015_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T041309_20210812T04395_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T04342_20210812T063138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T063256_20210812T062749_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T063368_20210812T064645_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T063368_20210812T064656_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065038_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T065038_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T0650522_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T06505652_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T070539_20210812T075736_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T070539_20210812T087052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T08438_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T08438_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T084228_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T084228_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210812T094322_20210812T084	CS_OFFL_SIR_LRM_1B_20210812T040636_20210812T040642_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210812T04342_20210812T044943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T045494_20210812T044943_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T062556_20210812T062749_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T062556_20210812T06249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T065536_20210812T065014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T066562_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T065032_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T065032_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T065032_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T070539_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T076399_20210812T075726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T08433_20210812T080702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T08433_20210812T082614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T08313_20210812T080438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T08316_20210812T08438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T08425_20210812T08438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210812T094827_20210812T098189_D001 Loss of echo The tracking echo is missing for	CS_OFFL_SIR_LRM_1B_20210812T040858_20210812T040919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T044342_20210812T053138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T062556_20210812T0624456_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T062556_20210812T064445_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065038_20210812T064445_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065038_20210812T065018_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0765034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T071114_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T074309_20210812T075726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08433_20210812T08641_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08433_20210812T082651_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08428_20210812T08438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08428_20210812T08438_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08428_20210812T08438_D001 Loss of echo The tracking echo is missing for one or more r	CS_OFFL_SIR_LRM_1B_20210812T041013_20210812T041015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T065549_20210812T066545_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T066556_20210812T066645_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T066565_20210812T066508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T066502_20210812T0665034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065032_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065032_20210812T005503_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065032_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T071114_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0704309_20210812T075726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T080453_20210812T080702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08433_20210812T082814_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084126_20210812T084088_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08426_20210812T085057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08426_20210812708909_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0904427_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more re	CS_OFFL_SIR_LRM_1B_20210812T041309_20210812T041905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T062556_20210812T062549_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T066656_20210812T0660518_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0660521_20210812T066034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0660521_20210812T0665210_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0650538_20210812T076537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T076539_20210812T076537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T076339_20210812T07637_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T074339_20210812T07526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08453_20210812T087726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T08453_20210812T086702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084433_20210812T082614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T0804026_20210812T086057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T098426_20210812T086507_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T09309_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more	CS_OFFL_SIR_LRM_1B_20210812T044342_20210812T044843_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210812T064656_20210812T065018_D001	CS_OFFL_SIR_LRM_1B_20210812T062556_20210812T062749_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T065021_20210812T065034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T065038_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T070537_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T070539_20210812T071114_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T074309_20210812T075726_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T080453_20210812T080702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T080453_20210812T080702_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084226_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084226_20210812T0891832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091835_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T10138_20210812T1005059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T100304_20210812T1005059_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 m	CS_OFFL_SIR_LRM_1B_20210812T063536_20210812T064645_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210812T080453_20210812T082614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T083116_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084226_20210812T085057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T090427_20210812T091832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_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_20210812T102304_20210812T103000_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_20210812T070539_20210812T071114_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084226_20210812T085057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T09427_20210812T091832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091835_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T092522_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T10750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_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_20210812T102304_20210812T103000_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_20210812T074309_20210812T075726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T082650_20210812T082916_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T084226_20210812T084038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T094226_20210812T0985057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T090427_20210812T091832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T092522_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_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_20210812T080453_20210812T080702_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T084226_20210812T085057_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T094226_20210812T091832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091835_20210812T091832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091835_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T092522_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_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_20210812T102304_20210812T103000_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_20210812T081433_20210812T082614_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210812T090427_20210812T091832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T092522_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T10750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_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_20210812T083116_20210812T084038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T091835_20210812T091841_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T091845_20210812T092009_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T092522_20210812T093819_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_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_20210812T084226_20210812T085057_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210812T092522_20210812T093819_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_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T104248_20210812T105059_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_20210812T091835_20210812T091841_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T104248_20210812T105059_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_20210812T091845_20210812T092009_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T104248_20210812T105059_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_20210812T092522_20210812T093819_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210812T104248_20210812T105059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210812T101656_20210812T101750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T104248_20210812T105059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210812T102138_20210812T102217_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210812T102304_20210812T103000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T105207_20210812T111811_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210812T104248_20210812T105059_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210812T105207_20210812T111811_D001	Loss of echo	The tracking echo is missing for one or more records

CC OFFI CID LDM 4D 20240940T442426 20240942T442022 D004	Loss of echo	The tracking cake is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T112426_20210812T112932_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T115954_20210812T120018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T120020_20210812T120643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T120643_20210812T120845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T122944_20210812T123004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T123006_20210812T125639_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T131307_20210812T134018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T134109_20210812T134331_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T134331_20210812T134333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T134407_20210812T135103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T145908_20210812T150238_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T150400_20210812T150848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T150905_20210812T151407_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T152025_20210812T152034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T152039_20210812T152125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T152147_20210812T152211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T152211_20210812T152309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T152533_20210812T152548_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T165218_20210812T165616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T165618_20210812T165648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T165756_20210812T165846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T171845_20210812T175347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T185702_20210812T191146_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T191627_20210812T191739_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T191741_20210812T193319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T195107_20210812T200335_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T200338_20210812T200443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T200814_20210812T202346_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T203608_20210812T203830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T203833_20210812T204349_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T204628_20210812T205648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T213330_20210812T214155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T214548_20210812T215037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T215321_20210812T215908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T221424_20210812T221716_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T221718_20210812T222049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222054_20210812T222054_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222056_20210812T222210_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222213_20210812T222220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222224_20210812T222226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222228_20210812T222229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222231_20210812T222235_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222237_20210812T222244_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222300_20210812T222350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T222751_20210812T222822_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T225548_20210812T225932_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T230659_20210812T233432_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T233648_20210812T233701_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210812T233706_20210812T234014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202108121235700_202108121234014_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210812T235741_20210813T000233_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20210812T022144_20210812T022151_D001	Cal1 corr. missing	The Cal1 correction has not been applied

4.6 L1B Auxilary Data File Usage Check

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

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.

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210812T004610_20210812T005428_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_20210812T022720_20210812T022940_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_20210812T023245_20210812T023353_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_20210812T134407_20210812T135103_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_20210812T152211_20210812T152309_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_20210812T185702_20210812T191146_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_SIN_1B_20210812T022144_20210812T022151_D001	Cal1 Correction missing,	The Cal1 Correction has not been applied

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_2_20210811T235715_20210812T002440_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_220210812T005717_20210812T012055_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_220210812T013730_20210812T021054_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_220210812T022216_20210812T022635_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_220210812T031650_20210812T033858_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_220210812T034033_20210812T035155_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_220210812T040212_20210812T040503_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_220210812T042152_20210812T043829_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_220210812T045549_20210812T053138_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_220210812T054203_20210812T054309_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_220210812T055328_20210812T061621_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_220210812T063536_20210812T064645_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_220210812T064656_20210812T065018_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_220210812T065038_20210812T065210_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_220210812T065652_20210812T070537_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_220210812T070539_20210812T071114_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_220210812T072355_20210812T074057_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_220210812T074309_20210812T075726_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_220210812T081433_20210812T082614_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_220210812T082650_20210812T082916_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_220210812T083116_20210812T084038_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_220210812T090427_20210812T091832_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_220210812T092522_20210812T093819_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_220210812T095421_20210812T100959_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_220210812T101235_20210812T101446_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_220210812T102304_20210812T103000_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210812T104248_20210812T105059_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_220210812T105207_20210812T111811_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_220210812T113426_20210812T115746_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_220210812T120020_20210812T120643_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210812T123006_20210812T125639_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_220210812T131307_20210812T134018_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_220210812T134407_20210812T135103_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_220210812T140257_20210812T143513_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_20210812T152211_20210812T152309_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_20210812T152639_20210812T153012_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_20210812T154156_20210812T155105_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_2_20210812T155350_20210812T161506_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_20210812T164409_20210812T164852_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_20210812T171845_20210812T175347_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_220210812T181304_20210812T184446_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_20210812T185702_20210812T191146_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_220210812T191627_20210812T191739_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_20210812T191741_20210812T193319_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_20210812T195107_20210812T200335_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_20210812T200814_20210812T202346_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_220210812T203833_20210812T204349_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210812T204628_20210812T205648_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_20210812T213330_20210812T214155_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_20210812T214548_20210812T215037_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_220210812T220019_20210812T220244_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_220210812T222928_20210812T225022_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_220210812T230659_20210812T233432_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_220210812T235536_20210812T235617_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_SIN_220210812T022144_20210812T022151_D001	Calibration Warning	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products 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	144	144	144	0	0
SIR_SAR_1B	100	100	100	0	0
SIR_SIN_1B	98	98	98	0	0
SIR_LRM_2	144	144	138	6	0
SIR_SAR_2	98	99	99	0	0
SIR_SIN_2	99	98	96	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	-	-	•	-
SIR_GDR_2_	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)		

6.2 QCC Warnings

Number of QCC reports with warnings

Total number	of	occurrences	of	each	warning

Product Type	AXDME	AXSMMEOCI	•	-	-	-	-
SIR_LRM_2_	0	6					
SIR_SIN_2_	2	0					

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

6.2 Missing QCC Reports

Number of	products with m	nissing	QCC re	ports:
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