

08/08/2021



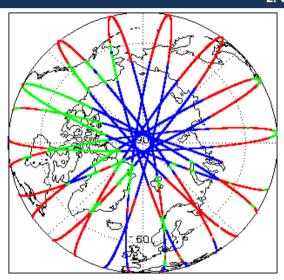
1. Overview

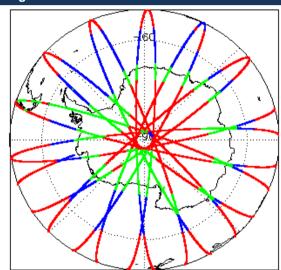
Report Production Date:	08-Sep-2021		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

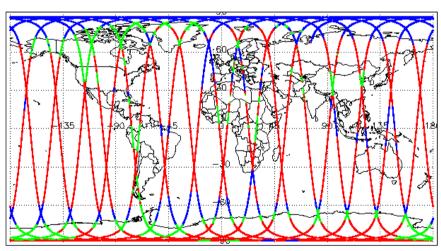
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

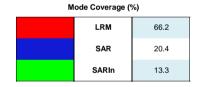
Mission / Instrument News						
07-Aug-2021	None					
08-Aug-2021	None					
09-Aug-2021	Nothing planned					

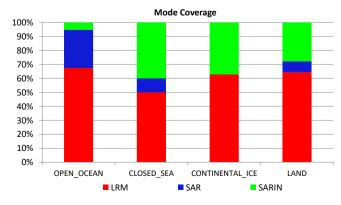
2. Global Coverage

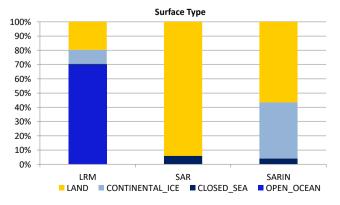












3. Instrument Configuration

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:

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:

111

Co. OFFL. SR. L.P.M. 18. 20210080T001022 20210080T00102858 D001 Loss of enho	Product	Test Failed	Description
CS_OFF_SR_LEM_B_2010006700391_2021006700596_D001	CS_OFFL_SIR_LRM_1B_20210808T000102_20210808T002858_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_202108087005011_20210808700588_0001 CS_OFFL_SR_LRM_18_20210808700588_0001 CS_OFFL_SR_LRM_18_20210808700589_0001 CS_OFFL_SR_LRM_18_20210808700595_0001 CS	CS_OFFL_SIR_LRM_1B_20210808T002900_20210808T002902_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL. SIR. LRM. 18. 20210808T005648 20210808T005652. D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T005682 20210808T0102149. D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T00582 20210808T01022149. D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T013232 20210808T02332 20210808T02332 20210808T02332 20210808T02332 20210808T02332 20210808T02332 20210808T02332 20210808T02332 20210808T02333 20210808T02333 2001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023634 20210808T023344 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023634 20210808T023344 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023332 20210808T023434 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023332 20210808T023439 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023332 20210808T023450 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023332 20210808T023550 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023332 20210808T023550 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023332 20210808T023550 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T023535 20210808T023550 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T04353 20210808T043550 D001 Loss of exho The tracking exho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T043550 20210808T043550 D001 Loss of exho The tracking exho is missing for one or more records CS.	CS_OFFL_SIR_LRM_1B_20210808T002904_20210808T002910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRN_18_202108081705828_202108081705824_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081705828_202108081705824_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703834_20210808170384_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703834_20210808170384_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703834_20210808170384_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703884_202108081702743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703834_202108081702743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703834_202108081703747_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703835_202108081703747_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703835_202108081703747_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703835_202108081703437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703432_202108081703439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081703439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081704339_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081704339_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081704349_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081704339_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRN_18_202108081704339_D001 Loss of echo Th	CS_OFFL_SIR_LRM_1B_20210808T005011_20210808T005541_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL. SIR. LRM. 18. 20210808T003024, 20210808T010021, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T0020260, 20210808T002327, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T002302, 20210808T0023327, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T002303, 20210808T002304, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T002303, 20210808T002304, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T002303, 20210808T002303, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T002303, 20210808T002303, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T002303, 20210808T0031337, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T00303, 20210808T031337, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T00303, 20210808T031337, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T004035, 20210808T034039, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T004120, 20210808T04133, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T04120, 20210808T04330, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T04472, 20210808T04330, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T04472, 20210808T04330, D001 Loss of etcho The tracking etho is missing for one or more records CS. OFFL. SIR. LRM. 18. 20210808T04432, D0010808T04431, D001 Loss of etcho The tracking etho is missin	CS_OFFL_SIR_LRM_1B_20210808T005648_20210808T005815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210808T013312_20210808T01340_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T013312_20210808T013340_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T023631_20210808T023448_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T023632_20210808T023448_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T023632_20210808T023743_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T023622_20210808T023743_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T023632_20210808T03337_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T02362_20210808T03337_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T02362_20210808T040989_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T040352_20210808T040989_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041340_20210808T041338_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04132_20210808T041338_D001 Loss of etho The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04132_20210808T041338_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04132_20210808T041338_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04132_20210808T04339_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T043537_20210808T04359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T064359_20210808T04549_D001 Loss of echo The tracking echo is	CS_OFFL_SIR_LRM_1B_20210808T005817_20210808T005826_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_20210080T013312_20210080T023337_0001	CS_OFFL_SIR_LRM_1B_20210808T005828_20210808T010021_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL. SIR _LRM_18_20210080T023632_20210080T023343_D001	CS_OFFL_SIR_LRM_1B_20210808T010024_20210808T012449_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T023651_20210808T023743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T023652_20210808T023743_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T023652_20210808T023760_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T023652_20210808T023760_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T023652_20210808T0336501_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T023652_20210808T035601_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T040552_20210808T040550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0412452_20210808T040550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0412452_20210808T041343_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T041242_20210808T041249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T041242_20210808T041343_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T041352_20210808T045235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T045235_20210808T05124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T04535_20210808T05124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T04555_20210808T085650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T04665_20210808T081452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T04665_20210808T081452_D001 Loss of	CS_OFFL_SIR_LRM_1B_20210808T013312_20210808T013640_D001	Loss of echo	The tracking echo is missing for one or more records
CS. OFFL. SIR. LRM. 18, 20210808T023862, 20210808T023743, D001 CS. OFFL. SIR. LRM. 18, 20210808T023802, 20210808T0240690, D001 CS. OFFL. SIR. LRM. 18, 20210808T023080, 20210808T023503, D001 CS. OFFL. SIR. LRM. 18, 20210808T023080, 20210808T035301, D001 CS. OFFL. SIR. LRM. 18, 20210808T032062, 20210808T035801, D001 CS. OFFL. SIR. LRM. 18, 20210808T032062, 20210808T035801, D001 CS. OFFL. SIR. LRM. 18, 20210808T032062, 20210808T035801, D001 CS. OFFL. SIR. LRM. 18, 20210808T040803, 20210808T040959, D001 CS. OFFL. SIR. LRM. 18, 20210808T04120, 20210808T04959, D001 CS. OFFL. SIR. LRM. 18, 20210808T04120, 20210808T04959, D001 CS. OFFL. SIR. LRM. 18, 20210808T04120, 20210808T04499, D001 CS. OFFL. SIR. LRM. 18, 20210808T04122, 20210808T042349, D001 CS. OFFL. SIR. LRM. 18, 20210808T04122, 20210808T04239, D001 CS. OFFL. SIR. LRM. 18, 20210808T041232, 20210808T04239, D001 CS. OFFL. SIR. LRM. 18, 20210808T041232, 20210808T04239, D001 CS. OFFL. SIR. LRM. 18, 20210808T041232, 20210808T042339, D001 CS. OFFL. SIR. LRM. 18, 20210808T04232, 20210808T045359, D001 CS. OFFL. SIR. LRM. 18, 20210808T045352, 20210808T055309, D001 CS. OFFL. SIR. LRM. 18, 20210808T045352, 20210808T055309, D001 CS. OFFL. SIR. LRM. 18, 20210808T045352, 20210808T055509, D001 CS. OFFL. SIR. LRM. 18, 20210808T055345, 20210808T055509, D001 CS. OFFL. SIR. LRM. 18, 20210808T055345, 20210808T055509, D001 CS. OFFL. SIR. LRM. 18, 20210808T055345, 20210808T055509, D001 CS. OFFL. SIR. LRM. 18, 20210808T0704552, 20210808T055509, D001 CS. OFFL. SIR. LRM. 18, 20210808T0704552, 20210808T055509, D001 CS. OFFL. SIR. LRM. 18, 20210808T0704552, 20210808T05500, D001 CS. OFFL. SIR. LRM. 18, 20210808T0704552, 20210808T05500, D001 CS. OFFL. SIR. LRM. 18, 20210808T0704552, 20210808T05500, D001 CS. OFFL. SIR. LRM. 18, 20210808T0704552, 20210808T08152, D001 CS. OFFL. SIR. LRM. 18, 20210808T0708500, 20210808T08152, D001 CS. OFFL. SIR. LRM. 18, 20210808T080500, 20210808T08152, D001 CS. OFFL. SIR. LRM. 18, 20210808T080500, 20210808T08152, D001 CS. OFFL.	CS_OFFL_SIR_LRM_1B_20210808T022608_20210808T023327_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210808T023924_20210808T025955_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T025935_20210808T025705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T025035_20210808T025705_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T030552_20210808T0305601_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T041949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T041949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041232_20210808T043940_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T042732_20210808T042340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T042732_20210808T042340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04937_20210808T05235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04937_20210808T05235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T053925_20210808T055104_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T074559_20210808T055500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T074559_20210808T095105_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T080480_20210808T081312_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T080454_20210808T093155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T080550_20210808T092158_D001 Loss of	CS_OFFL_SIR_LRM_1B_20210808T023631_20210808T023648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210808T036903_20210808T035905_D001	CS_OFFL_SIR_LRM_1B_20210808T023652_20210808T023743_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210808T030808_20210808T035091_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T040935_20210808T040938_D0101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T041338_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T041338_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T043240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041232_20210808T043240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04232_D010808T045235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04234_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T045235_20210808T05309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T063925_20210808T065000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T0704508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T0704508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T0704508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T080846_20210808T0804315_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T080846_20210808T081315_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T08488_D010808T08481_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T08488_D010808T082488_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T092833_20210	CS_OFFL_SIR_LRM_1B_20210808T023924_20210808T024059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210808T042052_20210808T040959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T040959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041240_20210808T041949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T041232_20210808T041949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04232_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T04232_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T045937_20210808T05509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T045937_20210808T05509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T065245_20210808T065124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T070041_20210808T07508D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T070441_20210808T07508D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T070459_20210808T080917_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T080462_20210808T08410_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T08454_20210808T084310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T08454_20210808T084310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T08454_20210808T08454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T09235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210808T00253_	CS_OFFL_SIR_LRM_1B_20210808T025035_20210808T025705_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T040935_20210808T04995B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T041240_20210808T041338_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T041232_20210808T049340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T042132_20210808T042340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T04728_20210808T045235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T045397_20210808T065390B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070041_20210808T07150B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0704659_20210808T081051D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0808468_20210808T081312_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084986_20210808T084312_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T08431D_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T08448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T08484B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T096951_20210808T09235B_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T002548_20210808T	CS_OFFL_SIR_LRM_1B_20210808T030808_20210808T031337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T041240_20210808T04138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T042132_20210808T041349_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T042132_20210808T042340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T04239_20210808T04235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T063925_20210808T065235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T063925_20210808T065245_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065260_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T07041_20210808T071508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070459_20210808T08117_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084864_20210808T0813155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084685_20210808T084131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084685_20210808T08431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084685_20210808T08431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084685_20210808T08431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T00233_20210808T002359_D001	CS_OFFL_SIR_LRM_1B_20210808T032052_20210808T035601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T041659_20210808T041949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T042132_20210808T045235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T045937_20210808T045350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T045937_20210808T05550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065500_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065245_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070041_20210808T075508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070041_20210808T081052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T080846_20210808T081052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T083508_20210808T0831052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084508_20210808T08431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084541_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0845448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102151_D001 Loss of echo The tracki	CS_OFFL_SIR_LRM_1B_20210808T040935_20210808T040959_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T042132_20210808T042340_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T045937_20210808T055350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070041_20210808T075680_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070041_20210808T08150_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0706549_20210808T08150_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0808460_20210808T08150_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0808460_20210808T08150_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T0808400_20210808T08150_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T081822_20210808T084431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084910_20210808T084431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092051_20210808T092318_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102684_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102684_20210808T10265	CS_OFFL_SIR_LRM_1B_20210808T041240_20210808T041338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T044728_20210808T045235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065392_20210808T065124_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T065600_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070412_0210808T071508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T074659_20210808T08117_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T08459_20210808T081052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T081822_20210808T0813125_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T081822_20210808T0813125_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T081508_20210808T08413_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084508_20210808T084910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084548_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092051_20210808T085448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092051_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092051_20210808T093080_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092093_20210808T093980_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102651_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 tracki	CS_OFFL_SIR_LRM_1B_20210808T041659_20210808T041949_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210808T063925_20210808T065024_D001	CS_OFFL_SIR_LRM_1B_20210808T044728_20210808T045235_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T065245_20210808T071508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T070041_20210808T08117_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T080846_20210808T080117_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T080846_20210808T081052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T081822_20210808T083125_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T083508_20210808T084431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084654_20210808T084431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T084481_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T090651_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102711_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	CS_OFFL_SIR_LRM_1B_20210808T045937_20210808T053509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T07041_20210808T071508_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T080846_20210808T080117_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T080846_20210808T081052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T081822_20210808T0808125_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T083508_20210808T084431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084654_20210808T0844910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T08448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T09458_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092032_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T10844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T10277_20210808T10275_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 re	CS_OFFL_SIR_LRM_1B_20210808T063925_20210808T065124_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210808T08454_20210808T084431_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084654_20210808T084910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T085448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092051_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T09233_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102635_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_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_20210808T102716_20210808T102725_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T080846_20210808T081052_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T084654_20210808T084910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T085448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T090651_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_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_20210808T102772_20210808T102808_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_20210808T081822_20210808T083125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T084912_20210808T085448_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T090651_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102725_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_20210808T102727_20210808T102808_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_20210808T083508_20210808T084431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T090651_20210808T092158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102766_20210808T102725_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_20210808T084654_20210808T084910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T092201_20210808T092359_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_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_20210808T084912_20210808T085448_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T093802_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102726_20210808T102808_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_20210808T102727_20210808T102808_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T090651_20210808T092158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T101844_20210808T102151_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_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_20210808T092201_20210808T092359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_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_20210808T102727_20210808T102808_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T092933_20210808T093802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102727_20210808T102808_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_20210808T101844_20210808T102151_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102726_20210808T102725_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102727_20210808T102808_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T102535_20210808T102618_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210808T102727_20210808T102808_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T102648_20210808T102650_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T102727_20210808T102808_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T102653_20210808T102711_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210808T102716_20210808T102725_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T102810_20210808T102844_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210808T102727_20210808T102808_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210808T102810_20210808T102844_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_1B_20210808T102847_20210808T103406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T104643_20210808T105529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T105559_20210808T105942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T112812_20210808T113333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T120011_20210808T120125_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T120501_20210808T121049_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T121049_20210808T121055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T121101_20210808T121210_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123301_20210808T123308_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123312_20210808T123318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123325_20210808T123337_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123340_20210808T123402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123404_20210808T123419_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123421_20210808T123425_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123427_20210808T123429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123431_20210808T123436_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T123440_20210808T130043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T131701_20210808T134311_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T134313_20210808T134314_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T134316_20210808T134429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T134431_20210808T134442_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210808T134444 20210808T134502 D001		
	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T134504_20210808T134723_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T134756_20210808T135454_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T150302_20210808T151230_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T151255_20210808T151755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T152400_20210808T152400_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T152404_20210808T152518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T152531_20210808T152559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T152600_20210808T152703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T152948_20210808T153000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T154555_20210808T155531_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T165613_20210808T170015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T170018_20210808T170018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T170020_20210808T170023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T170025_20210808T170116_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T170133_20210808T170317_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T172234_20210808T175737_D001		ů ů
	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T190050_20210808T191536_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T192017_20210808T192236_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T192350_20210808T193711_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T195515_20210808T200833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T201047_20210808T202759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T204012_20210808T204231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T204233_20210808T204712_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T205014_20210808T205749_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T205752_20210808T205759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T205801_20210808T205859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T205901_20210808T205901_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T205905_20210808T205908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T205910_20210808T210038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T213509_20210808T213628_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T213902_20210808T214501_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T214936_20210808T214938_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T214940_20210808T214947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T214949_20210808T215010_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T215015_20210808T215426_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T215710_20210808T220259_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T221811_20210808T221829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T221851_20210808T222241_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T222245_20210808T2222443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T222445_20210808T222733_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T223131_20210808T223236_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T225930_20210808T230324_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210808T230345_20210808T230616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T231056_20210808T233641_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T233643_20210808T233820_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T234022_20210808T234045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T234047_20210808T234421_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210808T234543_20210808T234601_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

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_20210808T104643_20210808T105529_D001	IECDO 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_20210808T152404_20210808T152518_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.

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.

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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_220210808T000102_20210808T002858_D001		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_220210808T002904_20210808T002910_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220210808T010024_20210808T012449_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_220210808T014106_20210808T021448_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_220210808T022608_20210808T023327_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_220210808T023924_20210808T024059_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_220210808T032052_20210808T035601_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_220210808T040537_20210808T040803_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_220210808T042556_20210808T044214_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_220210808T045937_20210808T053509_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_220210808T054530_20210808T054659_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_220210808T055730_20210808T062011_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_220210808T063925_20210808T065124_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_220210808T065245_20210808T065600_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_220210808T070041_20210808T071508_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_220210808T072738_20210808T074508_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_220210808T074659_20210808T080117_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_220210808T081822_20210808T083125_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_220210808T083247_20210808T083307_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_220210808T083508_20210808T084431_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_220210808T084654_20210808T084910_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210808T090651_20210808T092158_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_220210808T092933_20210808T093802_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_220210808T095806_20210808T101257_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_220210808T101844_20210808T102151_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_220210808T104643_20210808T105529_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_220210808T105559_20210808T105942_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_220210808T105945_20210808T112202_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_220210808T113822_20210808T120007_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_220210808T121445_20210808T121502_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_220210808T123440_20210808T130043_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_220210808T131701_20210808T134311_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_220210808T134444_20210808T134502_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210808T134756_20210808T135454_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_220210808T140702_20210808T143847_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_220210808T153105_20210808T153403_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_220210808T154555_20210808T155531_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_220210808T155741_20210808T161856_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_220210808T163640_20210808T165246_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_220210808T171049_20210808T171130_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_220210808T172234_20210808T175737_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_220210808T181656_20210808T184841_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_220210808T190050_20210808T191536_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_220210808T192017_20210808T192236_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_220210808T192350_20210808T193711_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_220210808T195515_20210808T200833_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_220210808T201047_20210808T202759_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_220210808T205014_20210808T205749_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_220210808T205910_20210808T210038_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_220210808T210218_20210808T211602_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_220210808T213902_20210808T214501_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_220210808T215015_20210808T215426_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_220210808T215549_20210808T215619_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_220210808T215710_20210808T220259_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_220210808T220421_20210808T220626_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_220210808T223424_20210808T225424_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_220210808T231056_20210808T233641_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

6. QCC Report Analysis

warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	174	174	174	0	0
SIR_SAR_1B	101	101	101	0	0
SIR_SIN_1B	101	101	101	0	0
SIR_LRM_2	174	174	170	4	0
SIR_SAR_2	101	101	101	0	0
SIR_SIN_2	101	101	97	4	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

8

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	•	-	-	-
SIR_LRM_2_	0	4					
SIR SIN 2	4	0					

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

6.2 Missing QCC Reports

Number of products with missing QCC reports:

0