

07/06/2020



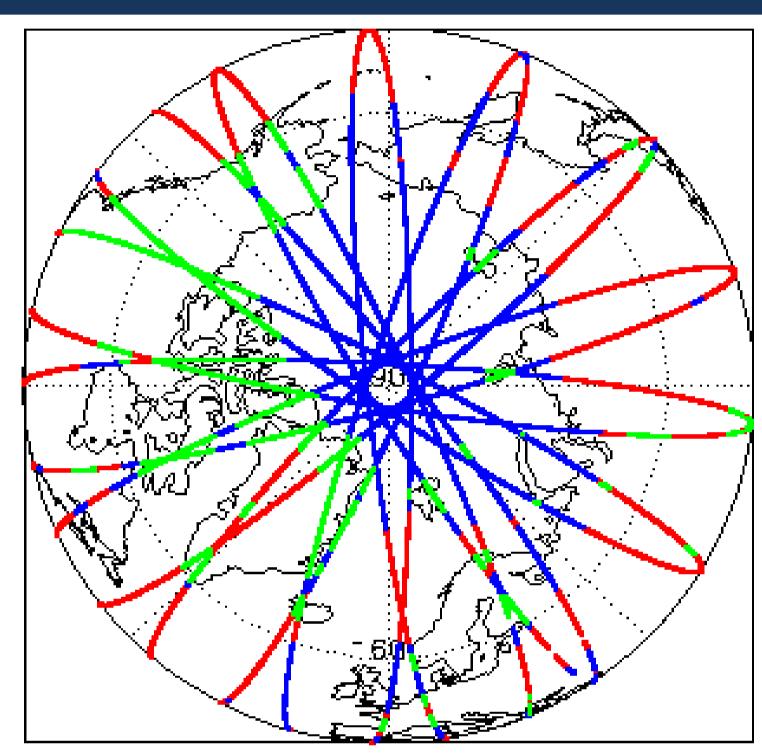
1. Overview

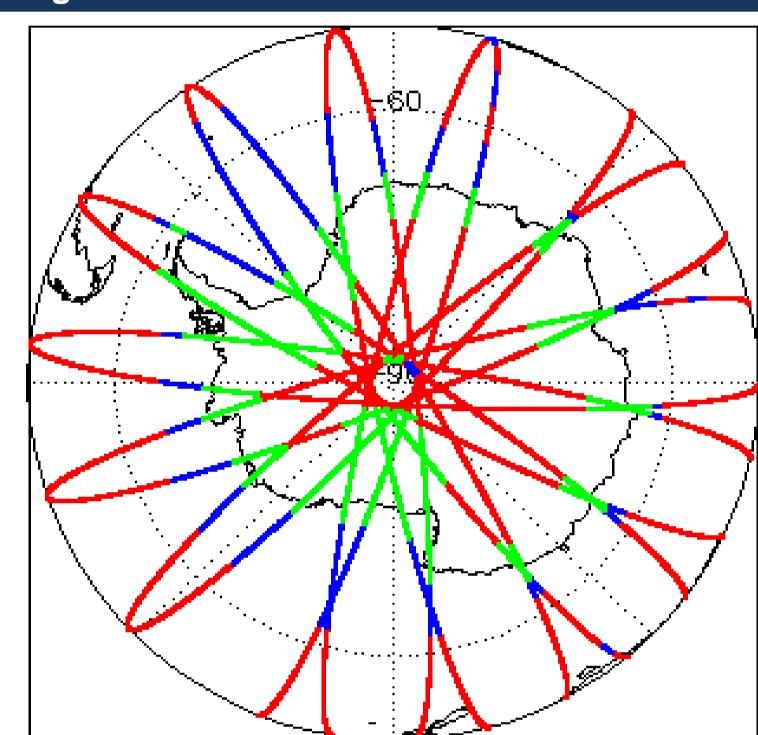
Report Production Date:	13-Jul-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

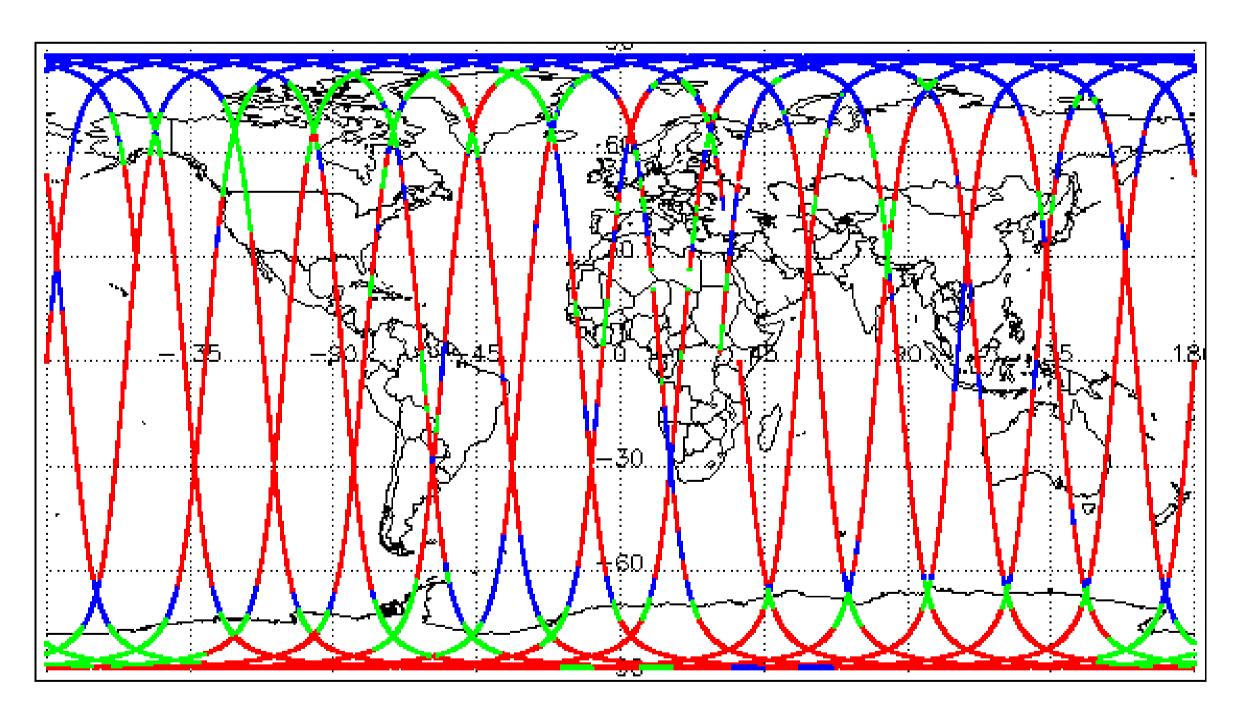
Check	Status		
Server check: science-pds.cryosat.esa.int	Nominal		
Server check: calval-pds.cryosat.esa.int	Nominal		
Product Software Check	Nominal		
Product Format Check	Nominal		
Product Header Analysis	Nominal		
Star Tracker Usage Check	Nominal		
L1B Tracking Flag Check	Nominal		
L1B Calibration Usage Check	Nominal		
L1B & L2 Auxiliary Data File Usage Check	See Section 4.6, 5.3 and 6.3		
L1B & L2 Auxiliary Correction Error Check	Nominal		
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5		
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3		

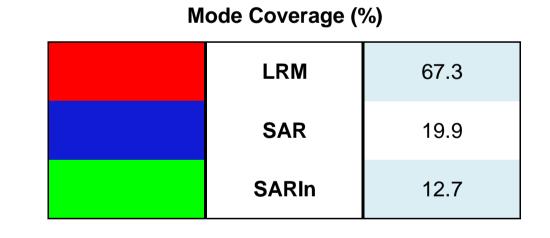
Mission / Instru	lission / Instrument News						
06-Jun-2020	None						
07-Jun-2020	None						
08-Jun-2020	Nothing planned						

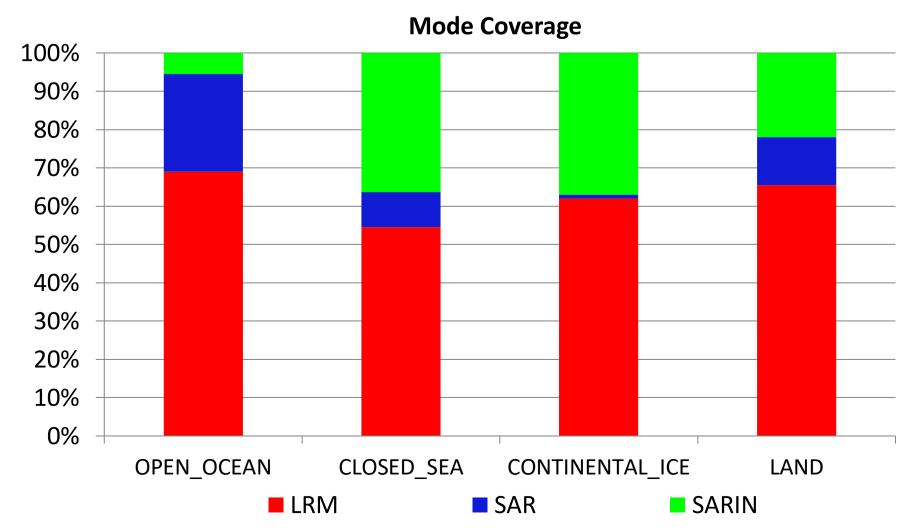
2. Global Coverage

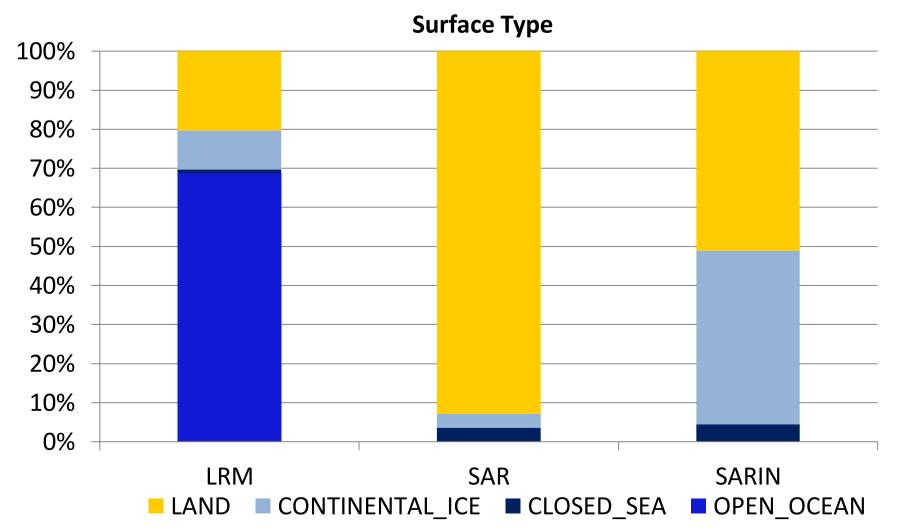












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

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:

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B Tracking Flags Check

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

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

Number of products with errors:

87

0

CS_OFF_LSR_IND_18_200000T100252_200000T100252_D001	Product	Test Failed	Description
EST CFF SER LPM 19 20000007170294 20200071704040 Dots of action The stacking action is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T002225_20200607T002257_D001	Loss of echo	The tracking echo is missing for one or more records
SS_OFFL_SR_LRM_18_22000007700294_2000007700292_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007700412_2000007700429_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007700412_200000770479_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_2200000770412_200000770479_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_2200000770419_200000770418_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_2200000770418_200000770418_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007704291_200000770489_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records SS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records CS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records CS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records CS_OFFL_SR_LRM_18_22000007704291_200000770429_D001 Loss of echo The tracking order is insisting for one or more records CS_OFFL_SR_LRM_18_2200000770429_20000007706509_D001 Loss of echo The tracking order is insisting for one or more records CS_OFFL_SR_LRM_18_2200000770429_2000007770609_D001 Loss of echo The tracking order is insisting for on	CS_OFFL_SIR_LRM_1B_20200607T002552_20200607T002911_D001	Loss of echo	The tracking echo is missing for one or more records
Les of each CRIL SIR LEM 18 20000607700002 2000007700002 D001 CS_OFFL_SIR_LEM_18_2000007704801 2000007704801 D001 CS_OFFL_SIR_LEM_18_2000007704801 2000007704801 D001 CS_OFFL_SIR_LEM_18_2000007704801 20000077020103 D001 CS_OFFL_SIR_LEM_18_2000007704801 20000077020103 D001 CS_OFFL_SIR_LEM_18_20000077020103 20000077020000 D001 CS_OFFL_SIR_LEM_18_20000077020103 20000077020000 D001 CS_OFFL_SIR_LEM_18_20000077020103 2000007702000 D001 CS_OFFL_SIR_LEM_18_20000077020103 2000007702000 D001 CS_OFFL_SIR_LEM_18_20000077020103 2000007702000 D001 CS_OFFL_SIR_LEM_18_20000077020103 2000007702000 D001 CS_OFFL_SIR_LEM_18_20000007702000 D001 CS_OFFL_SIR_LEM_18_20000007702000 D001 CS_OFFL_SIR_LEM_18_20000007702000 D001 CS_OFFL_SIR_LEM_18_20000007702000 D001 CS_OFFL_SIR_LEM_18_2000000770200 D001 CS_OFFL_SIR_LEM_1	CS_OFFL_SIR_LRM_1B_20200607T002913_20200607T002926_D001	Loss of echo	The tracking echo is missing for one or more records
SS_OFFL_SR_LRM_18_2000007704076_20000077040450_00001 Loss of echo The tracking once is missing for once in more records SS_OFFL_SR_LRM_18_2000007704772_200000770450_00001 Loss of echo The tracking once is missing for once in more records SS_OFFL_SR_LRM_18_2000007704773_2000007704760_00001 Loss of echo The tracking echo is missing for once in more records SS_OFFL_SR_LRM_18_2000007704773_2000007702478_00001 Loss of echo The tracking echo is missing for once in more records SS_OFFL_SR_LRM_18_2000007704773_2000007704274_000007704274_000007704474_000007704474_000007704474_000007704474_000007704474_000007704474_000007704474_0000770444_0000770444_00007704474_0000770444_000	CS_OFFL_SIR_LRM_1B_20200607T002944_20200607T003020_D001	Loss of echo	The tracking echo is missing for one or more records
Uses of exha the file 202006071004127 20200607100416.9 DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071004012, 202006071014059, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 2020060710041012, 202006071014059, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071004102, 202006071014059, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040474, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040531, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040531, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040581, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040581, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040641, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040644, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040644, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071040640, 202006071040580, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071060640, DOOL Loss of exha The tracking exha a missing for one or more records CS. OFFL, SRL JRM, 18, 202006071060760740, DOOL COS. OFFL, SRL JRM, 18, 202006071060760740, DOOL COS. OFFL, SRL JRM, 18, 202006071060760760760, DOOL COS. OFFL, SRL JRM, 18, 2020060710607607600, DOOL COS. OFFL, SRL JRM, 18, 2020060710607600, DOOL COS. OFFL, SRL JRM, 18, 2020060710607600	CS_OFFL_SIR_LRM_1B_20200607T003022_20200607T003022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LRM_1B_20200007104801_2000007104916_D000 CS_OFF_SR_LRM_1B_20200007104918_L2000007104902_D000 CS_OFF_SR_LRM_1B_20200007104918_L20000071024916_D000 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_202000071024192_20000071024916_D000 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_202000071024192_2000007102496_D000 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_202000071024192_D00007102496_D000 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007104930_2000007104986_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007104930_2000007104986_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007104930_200007104986_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007104980_200007104986_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007105904_200007105932_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007105904_2000007105944_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_202000071059644_2000007105944_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_202000071059644_2000007105930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007106940_2000007105930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007106940_2000007105940_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007106940_20000071054930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1B_20200007106940_20000071054930_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_1	CS_OFFL_SIR_LRM_1B_20200607T003603_20200607T004059_D001	Loss of echo	The tracking echo is missing for one or more records
SS OFFL SIR LRM 18 2000067702010 2000067702103 0001 Loss of earth The tracking echo is missing for one or more secords CS_OFFL_SIR_LRM_18_20000677021018_200067702103 0001 Loss of earth The tracking echo is missing for one or more secords CS_OFFL_SIR_LRM_18_20000677021232 20000677022845_0001 Loss of earth The tracking echo is missing for one or more secords CS_OFFL_SIR_LRM_18_200006770213231_20000677022845_0001 Loss of earth The tracking echo is missing for one or more secords CS_OFFL_SIR_LRM_18_20000677042831_20000677042845_0001 Loss of earth The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2000067704485_2000067704485_0001 Loss of earth The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2000067704485_2000067704485_0001 Loss of earth The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2000067704485_2000067704484_00001 Loss of earth The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2000067704485_2000067704444_00001 Loss of earth The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2000067704442,0000067704444_00000067704445_0000067704445_0000067704445_0000067704445_0000067704445_0000067704445_000067704445_0000067704445_0000067704445_000067704445_000067704445_000067704445_000067704445_00006770445_00006770445_00006770445_00006770445_00006770445_00006770445_00006770445_00006770445_00006770445_000677	CS_OFFL_SIR_LRM_1B_20200607T004127_20200607T004759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_20200007T02010_20200007T02103_D001	CS_OFFL_SIR_LRM_1B_20200607T004801_20200607T004816_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 2020807T02118 2020607T035945 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T037472 21206807T035945 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T044372 21206807T044385 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T044381, 2020607T044385 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T044381, 2020607T044385 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T044881, 2020607T044952, D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T054402, 2020607T046922, D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T054402, 2020607T054655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T054402, 2020607T054655_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T0544702, 2020607T054640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T054702, 2020607T06440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T064703, 2020607T06440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T064703, 2020607T064402, D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T064902, 2020607T064902, D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T0764902, 2020607T064902, D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_2020807T079472, 2020607T0764902, D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM 18_20208007T079474, 2020607T079472, D001 Loss of echo Th	CS_OFFL_SIR_LRM_1B_20200607T014931_20200607T014952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200607T042342_20200607T042534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T042531_20200607T042534_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T044253_20200607T044936_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T044831_20200607T045925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T054932_20200607T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T054932_20200607T054925_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T054902_20200607T054934_L0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T054902_20200607T054934_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064902_20200607T054934_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064902_20200607T064904_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064902_20200607T064904_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064904_20200607T064902_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064904_20200607T064902_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064904_20200607T064902_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064904_20200607T064904_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T074904_20200607T074905_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T074904_20200607T074905_D001 Loss	CS_OFFL_SIR_LRM_1B_20200607T020910_20200607T021038_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 18 20200807104331 20200807104388 D001	CS_OFFL_SIR_LRM_1B_20200607T021118_20200607T021610_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200607104493_20200607104493_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607104493_202006071059027_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071054042 202006071059027_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071054044 202006071054044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607105404 202006071054044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071054702_20200607105404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071060412_20200607106404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071062012_202006071062014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071063032_202006071062014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071063032_202006071062014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071063032_202006071062014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071064032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071064032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071064032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071064032_D0000707752 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071080052_D000070750752 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202006071080052_D00007070752 D001 Loss of echo The tracking echo is missing for one o	CS_OFFL_SIR_LRM_1B_20200607T032742_20200607T032945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T04483B_20200607T049825_D001	CS_OFFL_SIR_LRM_1B_20200607T042331_20200607T042524_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200607T04391_20200607T05927_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T053007_20200607T05455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T05440_20200607T05455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T05402_20200607T05455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T054702_20200607T05455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T06404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T06212_20200607T06214_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T06212_20200607T06214_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064024_20200607T064305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064024_20200607T064305_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064024_20200607T064935_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T07447_20200607T07922_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T07447_20200607T07924_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T07432_20200607T08434_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T084034_D001 Loss of echo T	CS_OFFL_SIR_LRM_1B_20200607T043757_20200607T044836_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T050307_20200607T050927_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T054044_20200607T054593_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T054702_20200607T054565_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064702_20200607T056563_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064159_20200607T062044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064159_20200607T062342_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064022_2000007T063350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064022_2000007T064022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064022_2000007T06407 D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T06432_20200607T06432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_2000607T070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_2000607T0707352_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070420_20200607T070452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082066_20200607T070852_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082066_20200607T08404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082068_20200607T08404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T089339_20200607T085022_D001	CS_OFFL_SIR_LRM_1B_20200607T044838_20200607T044848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T054044_20200607T054344_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T054450_20200607T05455B39_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064702_20200607T0560440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T06159_20200607T060440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T06159_20200607T068414_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0672754_20200607T063502_2000001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064024_20200607T064022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064024_20200607T064037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064038_20200607T064038_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0704047_20200607T070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0707389_20200607T070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T071320_20200607T0708507_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T071320_20200607T081434_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082666_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084084_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084084_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085052_D000607T084034_D001 Loss of echo	CS_OFFL_SIR_LRM_1B_20200607T044851_20200607T045925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T054450_2020607T054563_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T06212_2020607T062614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T062154_2020607T06254_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T06254_2020607T0623614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T06254_20200607T063360_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064024_2000607T064022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064024_2000607T064032_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064038_20200607T064035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T0707072_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070407_2000607T070707070001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070407_20200607T070707070001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070809_20200607T070807_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T080305_20200607T080428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T080305_20200607T080404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T080305_2020607T080404_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T080305_2020607T080505_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T080305_2020607T080505_D001	CS_OFFL_SIR_LRM_1B_20200607T050307_20200607T050927_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM_18_20200607T064702_20200607T060440_D001	CS_OFFL_SIR_LRM_1B_20200607T054044_20200607T054344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T060212_20200607T060440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T063350_20200607T064202_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064303_20200607T064307_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064303_20200607T064936_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064303_20200607T064936_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070747_20200607T070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0707070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0707070707070707070707070707070707	CS_OFFL_SIR_LRM_1B_20200607T054450_20200607T054655_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_2020607T06159_2020607T062614_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020607T063502_20200607T064022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_2020607T064024_20200607T064307_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064338_20200607T064335_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T07452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T07452_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T07047_20200607T07752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070809_20200607T07157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T071320_20200607T071857_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082060_2000607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085026_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085026_20200607T085162_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0850525_2020607T085164_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 record	CS_OFFL_SIR_LRM_1B_20200607T054702_20200607T055639_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T062754_20200607T06350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064024_20200607T06407D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T064024_20200607T064035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T0752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200807T070447_20200607T0752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200807T070809_20200607T07157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200807T071320_20200607T073657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200807T071320_20200607T073657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200807T081329_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T0955152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0953039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0955753_20200607T112640_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	CS_OFFL_SIR_LRM_1B_20200607T060212_20200607T060440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200607T063502_20200607T064022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T064038_20200607T064935_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T070447_20200607T07052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T070447_20200607T07052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T070809_202200607T07157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T071320_20200607T073657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T081329_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T082056_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T085025_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T085055_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T095555_20200607T10526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T113938_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200607T113938_20200607T112640_D001 Loss of echo The tracking	CS_OFFL_SIR_LRM_1B_20200607T061159_20200607T062614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T064024_20200607T064307_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T07052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T07052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070809_202000607T071157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T071320_202000607T073657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T081329_202000607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200007T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200007T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200007T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_202000607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T112640_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 mi	CS_OFFL_SIR_LRM_1B_20200607T062754_20200607T063350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T064938_20200607T070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070809_20200607T070752_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T070809_20200607T07157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T07320_20200607T073657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082068_20200607T082708_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_20200607T082068_20200607T084034_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_20200607T083936_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The	CS_OFFL_SIR_LRM_1B_20200607T063502_20200607T064022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T07052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T071320_20200607T07157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T07320_20200607T073657_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T081329_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T095515_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T09551_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T0110555_20200607T110526_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_20200607T110555_20200607T110559_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_20200607T064024_20200607T064307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T070809_20200607T07157_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T071320_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T081329_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085055_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110555_20200607T112640_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_20200607T1112640_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_20200607T064338_20200607T064935_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T081329_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T1112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T1114059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T070447_20200607T070752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T081329_20200607T081443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_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_20200607T113938_20200607T114059_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_20200607T070809_20200607T071157_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T1110855_20200607T112640_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_20200607T1110855_20200607T112640_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_20200607T113938_20200607T114059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T071320_20200607T073657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T112640_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_20200607T113938_20200607T114059_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_20200607T113938_20200607T114059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T081329_20200607T081443_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T083936_20200607T084034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T114059_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_20200607T113938_20200607T114059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T082056_20200607T082428_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T084156_20200607T085022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T114059_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_20200607T113938_20200607T114059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T082608_20200607T082708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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_20200607T083936_20200607T084034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T085154_20200607T091546_D001 CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_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_20200607T095753_20200607T100526_D001 CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T114059_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_20200607T084156_20200607T085022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T093039_20200607T095751_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T085025_20200607T085152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T114059_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_20200607T085154_20200607T091546_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_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_20200607T093039_20200607T095751_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T114059_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T095753_20200607T100526_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200607T110855_20200607T112640_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T114133_20200607T114258_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200607T113938_20200607T114059_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200607T114133_20200607T114258_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200607T115948_20200607T123340_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T130213_20200607T130225_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T130227_20200607T130413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T130432_20200607T131134_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T131317_20200607T131600_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T131850_20200607T131946_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T135121_20200607T141248_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T144139_20200607T144856_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T151615_20200607T151706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T152542_20200607T155201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T155948_20200607T160222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T161029_20200607T162258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T165445_20200607T165735_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T165921_20200607T170058_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T170212_20200607T171353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T171557_20200607T173058_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T174734_20200607T175539_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T175600_20200607T175944_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T175959_20200607T180112_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T180424_20200607T181632_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T181730_20200607T181915_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T183324_20200607T184352_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T184355_20200607T184706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T192435_20200607T195801_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200607T200001_20200607T200101_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: 0

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200607T215347_20200607T215842_D001	IECNO error TRK ecno error	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.

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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.

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Suppress of the control of the contr	Number of products with errors: 56		
For Part Part Act 2	Product	Test Failed	Description
Per detension 7, 19 19 19 19 19 19 19 19	CS_OFFL_SIR_LRM_220200606T233407_20200607T000751_D001	· · · · · · · · · · · · · · · · · · ·	
Relation 2: 3 (acceptant error profession 2) (acceptant error	CS_OFFL_SIR_LRM_220200607T005113_20200607T005853_D001	· · · · · · · · · · · · · · · · · · ·	
End (Retarder 2) Sept. 18M 2 20000007102813 (2000007102815) (CS_OFFL_SIR_LRM_220200607T011357_20200607T013528_D001	(Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Emil (Retruible 2) records CS OFFL SIR LRM 2 2020007102761 2010007102768 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020007102761 2010007102768 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710276 3 20200007103616 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710341 20100007103410 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710341 20100007103410 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710341 20100007103410 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710341 20100007103410 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710340 2000007103400 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710340 2000007104500 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710340 2, 2000007104500 D001 February 2, Backsonther 2 for one or more records CS OFFL SIR LRM 2 2020000710340 2, 2000007104500 D001 February 2, 2000007104500 D001 Febr	CS_OFFL_SIR_LRM_220200607T013814_20200607T014730_D001	, , , , , , , , , , , , , , , , , , ,	
Exp. OFFL_SIR_LEW_2_20000607103416_2000607103416_0001 CS_OFFL_SIR_LEW_2_20000607103416_0000607103416_0001 Height Error (Retrocker 2). Beatscatter: From (Retrocker 2) and a beight crow for the six or height and backscatter error for Retrocker 2 and a beight crow for Retrocker 2. September	CS_OFFL_SIR_LRM_220200607T021930_20200607T022423_D001		
CS_OFFL_SIR_LRM_2_2000007T034113_2000007T03414_D001 Right_Error (Retander 2), Backscatter Error (Retander 2), Backscatter Err	CS_OFFL_SIR_LRM_220200607T022611_20200607T023718_D001	, , , , , , , , , , , , , , , , , , ,	
Enror (Retracker 2) records CS_OFFL_SIR_LRM_2_20200607103434_202006071034449_0001 Height Enror (Retracker 2) Reducester Enror (Retracker 2) records CS_OFFL_SIR_LRM_2_20200607103438_20200607103449_0001 Height Enror (Retracker 2) Reducester Enror (Retracker 2) records CS_OFFL_SIR_LRM_2_20200607103438_20200607104366_0001 Height Enror (Retracker 2) Reducester Enror (Retracker 2) records records CS_OFFL_SIR_LRM_2_202006071034801_20200007104438_0001 Height Enror (Retracker 2) Reducester En	CS_OFFL_SIR_LRM_220200607T025315_20200607T031933_D001	(Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Enror (Retracker 2) Regist Error (Retracker 2) Regist Error (Retracker 2) Regist Error (Retracker 2) Regist Error (Retracker 3) Regist Error (Retracker 2) Regist Er	CS_OFFL_SIR_LRM_220200607T032113_20200607T032616_D001	, , , , , , , , , , , , , , , , , , ,	
CS_OFFL_SIR_LRM_2_2020807T03443_2020807T041356_D001 Refrancker 2) Refrancker 2)	CS_OFFL_SIR_LRM_220200607T034134_20200607T034149_D001	, , , , , , , , , , , , , , , , , , , ,	
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200607T04395_2000607T04436_D001 Height Error (Retracker 2), Backscatter Error (Setracker 2) for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2) for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2).	CS_OFFL_SIR_LRM_220200607T034236_20200607T034929_D001	(Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220200607T034943_20200607T041356_D001	· · · · · · · · · · · · · · · · · · ·	
CS_OFFL_SIR_LRM_2_20200607T054952_20200607T054952_D001 Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) and a height end for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20200607T054702_20200607T055639_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) or one or more records CS_OFFL_SIR_LRM_2_20200607T081329_20200607T081443_D001 Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) or one or more records E	CS_OFFL_SIR_LRM_220200607T043757_20200607T044836_D001	, , , , , , , , , , , , , , , , , , ,	
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20200607T054702_20200607T05539_D001 Height Error (Retracker 2). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3). Backscatter Error (Retracker 3) for one or more records CS_OFFL_SIR_LRM_2_20200607T075152_2020607T081311_D001 Error (Retracker 2). Backscatter Error (Retracker 3) for one or more records CS_OFFL_SIR_LRM_2_20200607T081329_20200607T081443_D001 Height Error (Retracker 2). Backscatter Error (Retracker 3) for one or more records Error (Retracker 2). Backscatter Error (Retracker 3) for one or more records Error (Retracker 2). Backscatter Error (Retracker 2) for one or more records Error (Retracker 2). Backscatter Error (Retracker 2) for one	CS_OFFL_SIR_LRM_220200607T044851_20200607T045925_D001	(Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Error (Retracker 2) records Error (Retracker	CS_OFFL_SIR_LRM_220200607T052252_20200607T053759_D001		
CS_OFFL_SIR_LRM_2_20200607T06159_20200607T063350_D001 Error (Retracker 2), Surface model unavailable CS_OFFL_SIR_LRM_2_20200607T062754_20200607T063350_D001 Height Error (Retracker 2), Backscatter	CS_OFFL_SIR_LRM_220200607T054702_20200607T055639_D001		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200607T070202_20200607T070324_D001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20200607T070809_20200607T071157_D001 Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 4), Backscatter Error (Ret	CS_OFFL_SIR_LRM_220200607T061159_20200607T062614_D001	Error (Retracker 2), Surface model	
CS_OFFL_SIR_LRM_2_20200607T070447_20200607T07052_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records Error (Retracker 2), Backscatter Er	CS_OFFL_SIR_LRM_220200607T062754_20200607T063350_D001	, , , , , , , , , , , , , , , , , , , ,	
Error (Retracker 2) Height Error (Retracker 2) Backscatter Error (Retracker 3) Frec is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records Error (Retracker 2) Height Error (Retracker 2) Backscatter Error (Retracker 2) Height Error (Retracker 2)	CS_OFFL_SIR_LRM_220200607T070202_20200607T070324_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20200607T071320_20200607T073657_D001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2	CS_OFFL_SIR_LRM_220200607T070447_20200607T070752_D001		
CS_OFFL_SIR_LRM_2_20200607T071320_20200607T073657_D001 (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter (Retracker 2), Height Error (Retracker 3), Backscatter (Retracker 2), Backscatter (CS_OFFL_SIR_LRM_220200607T070809_20200607T071157_D001	, ,	
CS_OFFL_SIR_LRM_2_20200607T075115_20200607T081311_D001 (Retracker 3), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20200607T081329_20200607T081443_D001 (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retr	CS_OFFL_SIR_LRM_220200607T071320_20200607T073657_D001	(Retracker 3), Backscatter Error	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_20200607T082608_20200607T082708_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records CS_OFFL_SIR_LRM_2_20200607T082608_20200607T082708_D001 Height Error (Retracker 2), Backscatter records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220200607T075115_20200607T081311_D001	(Retracker 3), Backscatter Error	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_20200607T082608_20200607T082708_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records CS_OFFL_SIR_LRM_2_20200607T085154_20200607T091546_D001 Height Error (Retracker 2), Backscatter records There is a height and backscatter error for Retracker 2 for one or more records Height Error (Retracker 2), Backscatter records There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220200607T081329_20200607T081443_D001	· · · · · · · · · · · · · · · · · · ·	
CS_OFFL_SIR_LRM_2_20200607T085154_20200607T091546_D001 Error (Retracker 2) Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220200607T082608_20200607T082708_D001	, , , , , , , , , , , , , , , , , , , ,	
US DEEL SIR LRIVEZ 2020007.1093039.20200007.1095/51.0001	CS_OFFL_SIR_LRM_220200607T085154_20200607T091546_D001	· · · · · · · · · · · · · · · · · · ·	
	CS_OFFL_SIR_LRM_220200607T093039_20200607T095751_D001	, , ,	

CS_OFFL_SIR_LRM_220200607T102349_20200607T102630_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_220200607T102756_20200607T105458_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_220200607T110855_20200607T112640_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_220200607T115948_20200607T123340_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_220200607T124835_20200607T125026_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_220200607T125226_20200607T125546_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_220200607T130227_20200607T130413_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_220200607T133953_20200607T134835_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_220200607T135121_20200607T141248_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_220200607T142807_20200607T143951_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_220200607T144139_20200607T144856_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_220200607T144951_20200607T145409_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_220200607T150326_20200607T150339_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_220200607T152542_20200607T155201_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_220200607T161029_20200607T162258_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_220200607T162320_20200607T164035_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_220200607T165445_20200607T165735_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200607T170212_20200607T171353_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_220200607T171557_20200607T173058_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_220200607T174734_20200607T175539_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_220200607T180424_20200607T181632_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_220200607T185521_20200607T191009_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_220200607T192435_20200607T195801_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_220200607T201836_20200607T201948_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200607T202543_20200607T204640_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_220200607T210340_20200607T213011_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_220200607T220135_20200607T222920_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_220200607T224322_20200607T231738_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_220200607T234221_20200607T234303_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200607T234306_20200607T234405_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

6. QCC Report Analysis

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	154	154	154	0	0
SIR_SAR_1B	119	119	119	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_LRM_2	154	154	151	3	0
SIR_SAR_2	110	119	119	0	0
SIR_SIN_2	119	110	106	4	0
SIR_GDR_2	13	13	0	0	13

6.1 QCC Errors

Number of products with QCC errors:

13

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
SIR_GDR_2_	13	13	13	13	13	13	13				

Test Description Key:	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

7

Total number of occurrences of each warning

	Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
	SIR_LRM_2_	0	3					
	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