

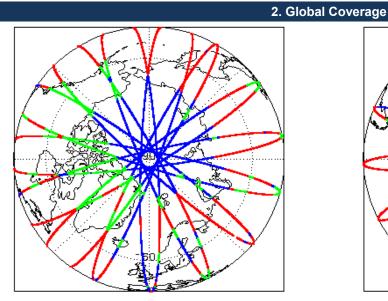
QA4EO Daily Report for OFFLINE data:

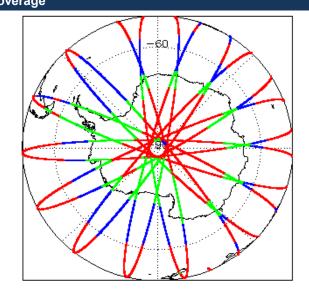
<u>18/08/2020</u>

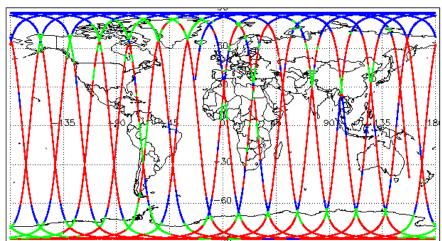
	17.0 0000	Check	Status
Report Production Date:	17-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Cruce Set los Prosposor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.	CryoSat Ice Processor	Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
Data Oseu.	LIB and L2 OFFLINE Data	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

1. Overview

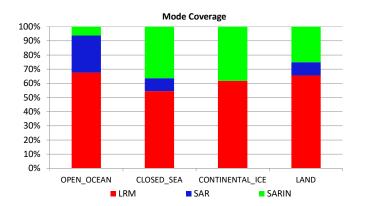
Mission / Instru	Vission / Instrument News				
17-Aug-2020	None				
18-Aug-2020	None				
19-Aug-2020	Nothing planned				

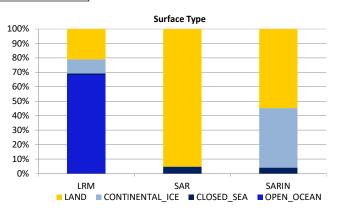












3. Instrument Configuration

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:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing. 0

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.

96

Number of products with errors:

Co. PTL_SRL_LML 18_2000611701125327 20000117010142_00001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_20000117010112_20000111701124_00001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_20000117010112_200001117010124_00001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_20000117010112_20001117010142_0001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_20000117010112_2000117010142_0001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_2000011701014_2000011010104290_0001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_2000011702440_20001101010440_20001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_2000011702440_2000111702440_001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_2000011702441_20000111702440_0001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_2000011702441_20000111702441_0001 Loss of exho The tasking scho is missing for one or more months CS, OFL_SRL_LML 18_200001170241_20000111702441_0001 Loss of exho The tasking exho is missing for one or more	Product	Test Failed	Description
CS_OFFL_SIR_LAN_18_220201817012318_220201817014756_001 Lass of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_220201817014726_20201817010472_0001 Lass of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_220201817010472_20201817010472_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_220201817010472_2020181702481_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_22020181702481_22020181702482_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_22020181702481_22020181702482_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_22020181702482_2020181702482_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_20200181702482_20200181702462_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_20200181702462_20200181702462_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_20200181702461_20200181702462_0001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_20200181703412_20200181703442_001 Loss of acho The tracking acho is making for one rome records CS_OFFL_SIR_LAN_18_20200181703412_	CS_OFFL_SIR_LRM_1B_20200817T235347_20200818T002938_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LMM_18_20008151014243_20208151014736_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_2000811001477_20008161700249_D001 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_200081100247_20008161700249_D0011 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_200081100249_2000811702457_D00101 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_2000811702450_2000811702457_D00101 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_2000811702450_2000811702457_D00101 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_2000811702450_20008117024700_D0011 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_20008117024700_200101 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_20008117024700_200101 Less of exbo The tracking exbo is missing for one or more records CS_OFFL_SR_LMM_18_2000811702470_2000811702470_2000811702470_2000811702470_2000811702470_2000811702470_2000811702470_2000811702470_2000811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470_200811702470	CS_OFFL_SIR_LRM_1B_20200818T010118_20200818T011443_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LEM_18_20200618T02454_20200618T02454_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T02454_20200618T024740_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T024740_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T024740_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T024740_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T03314_20200618T02358_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T03317_20200618T034100_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T03410_20200618T034112_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T03417_20200618T034102_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T03427_20200618T03412_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200618T034252_20200618T034262_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LEM_18_20200	CS_OFFL_SIR_LRM_1B_20200818T024451_20200818T024506_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_18_20200818T024756_02000818T024706_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T024766_0200818T024766_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T024766_0200818T025750_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T03014_0200818T03550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T03014_0200818T03516_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T03016_0200818T034112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T034102_0200818T034112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T04419_20200818T04412Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T04437_20200818T044312_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T04431_20200818T04438_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054142_2020818T05443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T05413_20200818T05435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054142_20200818T054513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054143_02020	CS_OFFL_SIR_LRM_1B_20200818T024540_20200818T024543_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200818702474_001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187025109_202008187025105_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187025109_202008187030441_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187033044_202008187033044Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187033047_20200818703304106_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187033017_202008187034108_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187034108_202008187034102_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818704417_202008187044302_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187044216_20200818704431_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008187044216_20200818704421_D0101Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818704212_20200818704525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818705432_20200818705425_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818705432_20200818705432_D010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818705432_2020081870	CS_OFFL_SIR_LRM_1B_20200818T024546_20200818T024549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202008181024746_202008181025106_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181030142_202008181030141_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181030142_202008181033456_D02008181033456_D02008181033456_D02008181033456_D02008181033456_D02008181033456_D02008181033456_D02008181033456_D02008181033456_D02008181033456_D0200818103410_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181033410_202008181034112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818103410_20200818103410_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181044210_202008181044210_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181044210_202008181044210_202008181044210_202008181044210_202008181044210_202008181044210_202008181054321_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181045213_202008181054321_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202008181054320_20208181054325_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818105432_20200818105432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818105432_20200818105434_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818105432_20200818105434_D001Loss of echoThe tracki	CS_OFFL_SIR_LRM_1B_20200818T024551_20200818T024706_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200818T030134_20200818T033558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T033456_20200818T033558_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T034108_20200818T034108_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T034114_20200818T034112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T044137_20200818T044208_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T044325_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T054235_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T0452320200818T054235_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054205_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054205_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05420_20200818T05420_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05420_20200818T05432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05420_20200818T05432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05420_20200818T05432_D001Loss of echoThe tr	CS_OFFL_SIR_LRM_1B_20200818T024746_20200818T025105_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_2020818T033917_20208018T034116_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T034114_2000818T034112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T034114_2020818T034902_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T044932_2020818T04428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T044281_2020818T04428_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T045213_2020818T044216_20200818T044216_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054201_2020818T05423_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054201_2020818T054202_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05432_2020818T05432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T05432_2020818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T054832_2020818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T054832_2020818T064532_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T064832_2020818T064532_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T	CS_OFFL_SIR_LRM_1B_20200818T030134_20200818T030441_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200818T034110_20200818T034112_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T04437_20200818T04432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T04437_20200818T044208_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T044216_20200818T04414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T044216_20200818T044814_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054213_20200818T05435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054208_20200818T05435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054543_20200818T054425_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054543_20200818T054647_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T05483_020200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054839_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054839_20200818T054839_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T06541_20200818T065639_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_202	CS_OFFL_SIR_LRM_1B_20200818T033456_20200818T033558_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T034114_20200818T034902_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T040437_20200818T043612_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T044216_20200818T051637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T045213_20200818T0551637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05501_20200818T05423_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054132_20200818T05422_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054132_20200818T054522_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T05442_0200818T05442_001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T05442_001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T05442_001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T065432_001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065432_2020818T065633_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065632_20200818T065632_D001Loss o	CS_OFFL_SIR_LRM_1B_20200818T033917_20200818T034106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T040437_20200818T043612_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T044216_20200818T044208_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T044216_20200818T044814_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T045213_20200818T055637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05201_20200818T055425_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054425_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054425_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054420_20200818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T05483_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054832_0200818T06541_00001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T06541_20200818T06583_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T06541_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20	CS_OFFL_SIR_LRM_1B_20200818T034108_20200818T034112_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T043953_20200818T044208_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T044216_20200818T044314_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T045213_20200818T05437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T055201_20200818T05435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054020_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054420_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_2020818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_2020818T064533_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065421_2020818T06538_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065421_2020818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T07004_2020818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T070213_2020818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T	CS_OFFL_SIR_LRM_1B_20200818T034114_20200818T034902_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200818T044216_20200818T044814_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T045213_20200818T052031_20200818T052435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T052031_20200818T052435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054742_20200818T054841_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054839_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T054839_20200818T056638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T065641_20200818T065639_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T070213_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T070213_20200818T070910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200818T070213_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200818T040437_20200818T043612_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T045213_20200818T051637_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T052001_20200818T054355_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T053938_20200818T054020_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054742_20200818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_20200818T064834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T064839_20200818T064839_D0200818T065439_D0200818T065439_D0200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065812_0200818T065821_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070313_20200818T07014D_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T070242_0200818T070912_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T07014_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070212_2020818T076232_D001Loss of echoThe tracking echo is miss	CS_OFFL_SIR_LRM_1B_20200818T043953_20200818T044208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T05201_20200818T052435_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T05402_00018T054020_001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054742_20200818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_2020818T054834_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_2020818T054834_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T054839_2020818T054830_20020818T065638_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T06541_2020818T065638_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T06541_2020818T065830_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T06541_2020818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T07021_2020818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T075245_2020818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020818T076125_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20208	CS_OFFL_SIR_LRM_1B_20200818T044216_20200818T044814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T053938_20200818T054620_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054742_20200818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_20200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065630_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065631_20200818T065930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_2020818T079210_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T08215_00018T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T08216_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20	CS_OFFL_SIR_LRM_1B_20200818T045213_20200818T051637_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054525_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054742_20200818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_20200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065632_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T082321_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_	CS_OFFL_SIR_LRM_1B_20200818T052001_20200818T052435_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T054742_20200818T054817_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_20200818T054839_20200818T065617_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065412_0200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065832_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065632_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T07910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T081905_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T08331_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2	CS_OFFL_SIR_LRM_1B_20200818T053938_20200818T054020_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T054839_20200818T061517_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T063120_20200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065630_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065632_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07213_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07213_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T08321_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T08331_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2	CS_OFFL_SIR_LRM_1B_20200818T054143_20200818T054525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T054839_20200818T061517_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T063120_20200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065830_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065832_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T07910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T072215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T081905_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T08375_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T08375_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_	CS_OFFL_SIR_LRM_1B_20200818T054742_20200818T054817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T063120_20200818T065638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065630_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065632_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T070910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T072215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200818T054820_20200818T054834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065830_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T065832_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T07040_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T070910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T072215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200818T054839_20200818T061517_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T065832_20200818T065921_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T07004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T070910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T072215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T072215_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T083831_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200818T063120_20200818T065638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200818T070004_20200818T070140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T070213_20200818T070910_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T072215_20200818T075249_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T081905_20200818T082351_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T082726_20200818T083212_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200818T083755_20200818T08331_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200818T065641_20200818T065830_D001	Loss of echo	The tracking echo is missing for one or more records
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4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing Number of products with errors: 0

4.6 L1B Auxilary Data File Usage Check

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

 Number of products with errors:
 0

4.7 L1B Auxiliary Correction Error Check

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

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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_20200818T020217_20200818T020912_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200818T034114_20200818T034902_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200818T070004_20200818T070140_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200818T135457_20200818T140027_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200818T153336_20200818T153727_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200818T203433_20200818T203824_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

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: 0

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_220200817T235347_20200818T002938_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_220200818T004120_20200818T010029_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_220200818T010118_20200818T011443_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_220200818T013243_20200818T014736_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_220200818T014937_20200818T015859_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_220200818T022102_20200818T023819_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_220200818T031216_20200818T032640_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_220200818T033917_20200818T034106_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200818T040056_20200818T040314_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_220200818T040437_20200818T043612_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_220200818T045213_20200818T051637_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_220200818T052548_20200818T052630_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_220200818T054839_20200818T061517_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_220200818T063120_20200818T065638_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_220200818T070213_20200818T070910_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_220200818T072215_20200818T075249_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_220200818T084554_20200818T084745_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_220200818T090027_20200818T093313_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_220200818T095109_20200818T100711_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_220200818T102510_20200818T102626_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_220200818T103658_20200818T111205_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_220200818T112946_20200818T115508_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_220200818T115532_20200818T120337_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_220200818T121532_20200818T122115_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_220200818T122124_20200818T122957_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_220200818T123438_20200818T123614_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_220200818T123633_20200818T124602_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_220200818T131035_20200818T132256_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_220200818T132457_20200818T134220_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_220200818T140428_20200818T141359_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_220200818T141602_20200818T142324_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_220200818T144738_20200818T144856_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_220200818T145751_20200818T145822_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200818T150553_20200818T151000_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_220200818T151009_20200818T151237_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_220200818T151407_20200818T151721_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_220200818T151844_20200818T152120_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_220200818T153854_20200818T154106_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200818T154109_20200818T154251_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200818T155407_20200818T160928_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_220200818T162521_20200818T165842_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_220200818T172345_20200818T174829_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_220200818T180416_20200818T183034_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_220200818T183234_20200818T183529_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_220200818T185216_20200818T185835_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_220200818T190219_20200818T192750_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_220200818T194441_20200818T201726_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_220200818T202901_20200818T203238_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_220200818T212339_20200818T214441_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_220200818T214727_20200818T215856_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_220200818T220834_20200818T221247_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_220200818T222847_20200818T223335_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_220200818T223523_20200818T224532_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_220200818T230251_20200818T230744_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_220200818T230753_20200818T231323_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_220200818T231534_20200818T233903_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_220200818T235323_20200818T235845_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

6. QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	151	151	151	0	0
SIR_SAR_1B	103	103	103	0	0
SIR_SIN_1B	110	110	110	0	0
SIR_LRM_2	151	151	145	6	0
SIR_SAR_2	110	102	102	0	0
SIR_SIN_2	102	110	108	2	0
SIR_GDR_2	15	15	0	0	15

Number of products with QCC errors:

15

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-
SIR_GDR_2_	15	15	15	15	15	15	15	15			
Test Description	n Key:										
Abbreviation	Test na	ime		Details							
MPHDUTNCDF	MPH_De	elta_UT1_NetCDF		Delta_UT1 mismat	ch						
MPHXPFNCDF	MPH_X_	Position_Float_v2_	NetCDF	X_Position mismat	X_Position mismatch (DBL float (GDR), rounded to 100)						
MPHXVFNCDF	MPH_X_	Velocity_Float_v2_	NetCDF	X_Velocity mismat	ch (DBL float (GDF	R), rounded to 1)					
MPHYPFNCDF	MPH_Y_	Position_Float_v2_	NetCDF	Y_Position mismat	ch (DBL float (GDF	R), rounded to 100)					
MPHYVFNCDF	MPH_Y_	Velocity_Float_v2_	NetCDF	Y_Velocity mismat	ch (DBL float (GDR	R), rounded to 1)					
MPHZPFNCDF	MPH_Z_	Position_Float_v2_	NetCDF	Z_Position mismat	ch (DBL float (GDF	R), rounded to 100)					
MPHZVFNCDF	MPH_Z_	Velocity_Float_v2_	NetCDF	Z_Velocity mismat	ch (DBL float (GDR	R), rounded to 1)					
STRUCTURESIZ	ZEANDESTRUCT	URE_SIZE_AND_F	READ	Under investigation	۱.						

6.2 QCC Warnings

Product Type	AXDME AXSMMEOCI AXSMEOOO			AXWMMEOOO	-	-	-
SIR_GDR_2_	0	1	0	0			
SIR_LRM_2_	0 5 1			1	1		
Test Description Key	/:						
Abbreviation	Test name			Details			
AXDME	AttributeXrefDemMustExist		The xref_dem attribute	The xref_dem attribute is mandatory in SIN products over continental ice			
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce		The xref_slope_model	The xref_slope_model is mandatory in LRM products over continental ice			
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean			The xref_ssb is manda	atory in LRM products o	ver open ocean	
AXWMMEOOO	AttributeXrefWind	/lodelMustExistOverOpenOcea	n	The xref_wind_model	The xref_wind_model attribute is mandatory in LRM products over open ocean		
	I.			I			
6 2 Missing O(C Poporte						
6.2 Missing QC	CC Reports						