

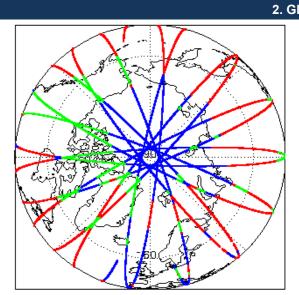
# **QA4EO Daily Report for OFFLINE data:**

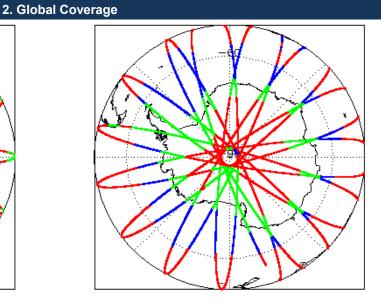
<u>13/08/2020</u>

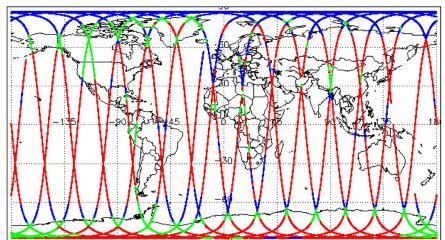
# 1. Overview

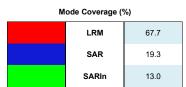
Demont Bredwetien Deter	14 5 - 2020	Check	Status
Report Production Date:	14-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor used.	Cryosal ice Processor	Product Software Check	Nominal
Data Used:	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

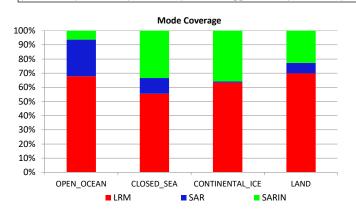
Mission / Instru	iment News
12-Aug-2020	
13-Aug-2020	Unavailability 09:36:10 to 09:56:38
14-Aug-2020	Nothing planned

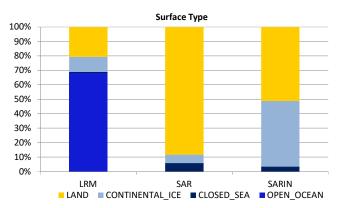












## 3. Instrument Configuration

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.

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#### Number of products with errors:

Corr, SH, LIMU, H2, 200000131000432, 20000         Loss of who         The tasking who is missing for one or use records           Co, OFFL, SH, LIMU, H2, 200001310104472, 20000131011080, 2001         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 200001310101472, 20000131011080, 2001         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 200001310101202, 200001310112025, 20001         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 200001310101202, 20000131012025, 20001         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 20000131010210, 20000131020150001         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 20000131010210, 200001310102109, 2000011100004         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 20000131000170, 2000013100010         Loss of who         The tasking who is missing for one or more records           CG, OFFL, SH, LIMU, H2, 20000131000147, 20000131000147, 20000111000044, 20000131000047, 20000131000047, 20000110000447, 2000011000047, 20000110000447, 2000011000044, 20000110000447, 20000110000447, 20000110000447, 2000011000047, 2000011000047, 2000011100004, 2000011000044, 20000110000447, 2000011000047, 2000011000047, 2000011000047, 2000011000047, 2000011000044, 20000110000447, 2000011000047, 2000011000047, 2000011000047, 20000011000047, 2000011000047, 2000011000047, 20000110000	Product	Test Failed	Description
CS. OFFL SR. LRM. 18. 2020813701026, 20208137011729, 20208137011809, D001     Loss of echo     The tracking echo is meaning for one of more records       CS. OFFL SR. LLM. 18. 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701228, 2020813701288, 20001     Loss of echo     The tracking echo is meaning for one of more records       CS. OFFL, SRL, LMM, 18, 2020813701278, 2020813701288, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813702783, 2020813702189, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813702783, 2020813703370, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813703703, 2020813703370, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813703703, 2020813703370, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813703703, 2202081703370, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813703738, 20208137033718, 2001     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL, LMM, 18, 2020813703373, 2020813704571, 20201     Loss of echo     The tracking echo is meaning for one or more records       CS. OFFL, SRL	CS_OFFL_SIR_LRM_1B_20200813T003831_20200813T004023_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SR, LRW, 18, 20008137011729, 20008137011620, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 2000813701162, 2000813701620, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 20008137016224, 20008137016240, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 20008137016244, 20008137003870, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 2000813701424, 20008137003870, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 20008137003870, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 20008137033700, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 20008137033700, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 20008137033700, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 2000813703370, D001         Less of exho         The tracking exho is messing for one or more records           CS, OFFL, SR, LRW, 18, 2000813703370, D0001         Less of exho         The tracking exho is messing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T004812_20200813T010445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_20208137011815_2020813701202_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_2020813701202_2020813701202_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_2020813701202_2020813701202_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_2020813701274_2020813702741_20208137027415_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_20208013702741_20208013702415_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_20208013702415_20208013702415_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_2020801370331702415_2020813703343_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_202080137033128_20208137033128_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_202080137033128_20208137033128_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_202080137033128_20208137033128_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_202080137043128_20208137043128_D001     Less of exho     The tracking exho is missing for one or more records       CS_OFFL_SR_LRM_18_202080137044128_2020813704440_2020811004428_20208137044128_208117044128_208117044128_2081170	CS_OFFL_SIR_LRM_1B_20200813T010926_20200813T011726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_18_2020813701222_2020813701222_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020813701228_2020813701228_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020081370274_2020813702370_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_20200813702370_D000137023710_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_20200813702370_D000137023710_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_20200813703847_D000813703380_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_202008137033842_20208137033820_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020813703372_20208137033820_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020813703372_2020813703424_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020813703424_2020813704424_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020813704424_D020813704424_D001     Less of exbo     The tracking exbo is missing for one or more records       CS_OFFL_SR_LRM_18_2020813704424_D020813704424_D020813704424_D001     Less of exbo     The tracking exbo is missing for one	CS_OFFL_SIR_LRM_1B_20200813T011729_20200813T011809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_IB_2020813701228_2020813701228_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137012724_20208137021896_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137021724_202008137021820_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_2020813702242_20200813703282_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137033047_202008137033282_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137033047_202008137033047_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137033047_202008137033047_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137033347_2020081370347041_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137043494_202008137044240_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137043494_20200813706422_D001       Loss of exho       The tracking exho is missing for one or more records         CS_OFFL_SR_LRM_IB_20208137064349_2020813706422_D001       Loss of exho       The tracking exho is missing for one or more records <td< td=""><td>CS_OFFL_SIR_LRM_1B_20200813T011815_20200813T012021_D001</td><td>Loss of echo</td><td>The tracking echo is missing for one or more records</td></td<>	CS_OFFL_SIR_LRM_1B_20200813T011815_20200813T012021_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_2020813701541_2020813702415_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_2020813702472_20208137024155_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_2020813702472_20208137024155_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_2020801370337047_2020813703335_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_202080137033704_202080137033726_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_202080137033726_20208137033726_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_202080137033726_20208137043917_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_20208013704374242_20208137043917_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_202080137043424_202080137043917_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_202080137043424_202080137043410_0001       Loss of exho       The tracking ocho is missing for one or more records         CS_OFFL_SR_LRM_1B_202080137043442_202080137043440_0001       Loss of exho       The tracking ocho is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T012023_20200813T012026_D001	Loss of echo	The tracking echo is missing for one or more records
CB_OFFL_SIR_LRM_1B_20200813T021724_20200813T021736_20200813T021735Lass of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T021732Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T021732Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T03047_20200813T033043_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T033042_20200813T033043_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T033042_20200813T0330216_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T03305571_20200813T043216_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T043452_20200813T04341_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T04345_20200813T04345_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T04345_20200813T04345_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T04345_20200813T04345_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T04345_20200813T04345_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T04345_20200813T04345_D0011Loss of exhoThe tracking exho is missing for one or more recordsCB_OFFL_SIR_LRM_1B_20200813T04345_20200813T04	CS_OFFL_SIR_LRM_1B_20200813T012028_20200813T012341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_2000B13T022703_2000B13T03303_D001Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2000B13T034254_20200B13T03333_D001Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2000B13T03342_2020B13T03333_D001Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020B13T03342_2020B13T0333216_D001Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020B13T03352_2020B13T033526_D001Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020B13T033572_2020B13T03352_10_D001Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020B13T03575_2020B13T03357_D0010Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020B13T04345_2020B13T04347_D0011Loss of exhoThe tracking exho is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020B13T04545_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13T05459_2020B13	CS_OFFL_SIR_LRM_1B_20200813T015541_20200813T020959_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_18_2020013T02424_2020013T030328_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T03042_2020013T030342_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T03042_2020013T030342_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T030122_2020013T0303592_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T033759_2020013T030359_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T0335517_2020013T040341_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T044045_2020013T044031_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T044045_2020013T044242_D0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T044345_2020013T044245_D0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T064345_2020013T064345_D0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T064345_20200313T063440_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T064345_20200313T063445_D0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T06445_20200313T065440_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LEM_18_2020013T076571_20	CS_OFFL_SIR_LRM_1B_20200813T021724_20200813T021936_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LEM_18_20200813703104_20200813703304_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813703304_20200813703304_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813703304_20200813703304_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813703375_20200813703556_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813703557_20200813704341_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813704349_20200813704340_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813704340_20200813704440_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813704543_20200813706440_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_20200813706505_202008137053040_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_202008137064505_202008137054120_0001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LEM_18_202008137075232_2020813705424_0001       Loss of echo       The tracking echo is missing for one or more records <tr< td=""><td>CS_OFFL_SIR_LRM_1B_20200813T022703_20200813T024115_D001</td><td>Loss of echo</td><td>The tracking echo is missing for one or more records</td></tr<>	CS_OFFL_SIR_LRM_1B_20200813T022703_20200813T024115_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_18_20200813T050806_20200813T053040_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T053705_20200813T06142_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T054751_20200813T06142_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T061232_20200813T062142_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T075239_20200813T075229_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T075450_20200813T075251_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T075450_20200813T07560_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T07540_20200813T075827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T075913_20200813T095913_D0101Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T09141_20200813T092130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T092455_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T092455_20200813T09231_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200813T092455_20200813T09333_20200813T09333_200001Loss of echoThe tracking echo is missing for one or more recordsCS_O	CS_OFFL_SIR_LRM_1B_20200813T045519_20200813T050222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T05375_20200813T054158_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T064751_20200813T061242_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T061232_20200813T062142_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075239_20200813T075229_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075231_20200813T075251_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075450_20200813T075625_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075450_20200813T075827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075451_20200813T075827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075451_20200813T097592_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09141_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09245_20200813T09240_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09245_20200813T09240_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092452_20200813T09233_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202	CS_OFFL_SIR_LRM_1B_20200813T050443_20200813T050803_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200813T072539_20200813T075239_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075231_20200813T075251_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075450_20200813T075606_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075640_20200813T075827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075913_20200813T075927_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075913_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091411_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092152_0200813T09210_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09283_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093444_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2	CS_OFFL_SIR_LRM_1B_20200813T054751_20200813T061042_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200813T075450_20200813T075606_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075640_20200813T075827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075913_20200813T095913_20200813T095913_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091141_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09135_20200813T092110_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09333_20200813T09333_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09343_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T072539_20200813T075229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T075640_20200813T075827_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T075913_20200813T080329_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091141_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091309109153_20200813T092110_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T09231_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T09231_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09283_20200813T09231_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09283_20200813T09231_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09333_20200813T09333_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T075231_20200813T075251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T075913_20200813T080329_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091141_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091635_20200813T092110_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T09333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T075450_20200813T075606_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T091141_20200813T091513_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T091635_20200813T092110_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T075640_20200813T075827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T091635_20200813T092110_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T075913_20200813T080329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T091141_20200813T091513_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T091635_20200813T092110_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T0934427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093447_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T092135_20200813T092310_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T092455_20200813T092640_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001       Loss of echo       The tracking echo is missing for one or more records         CS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001       Loss of echo       The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T092823_20200813T092931_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T093333_20200813T093337_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200813T093409_20200813T093414_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T105644_20200813T110244_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200813T093427_20200813T093448_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20200813T105644_20200813T110244_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200813T110448_20200813T110917_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T113117_20200813T120621_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T130935_20200813T132418_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T132843_20200813T132951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T132955_20200813T132955_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T132959_20200813T134552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T140327_20200813T141719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T141932_20200813T143538_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T144836_20200813T145657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T145902_20200813T150920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T155733_20200813T160311_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T160554_20200813T161522_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T161553_20200813T161604_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T162659_20200813T163320_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163322_20200813T163330_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163332_20200813T163350_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163352_20200813T163422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163426_20200813T163432_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163435_20200813T163438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163440_20200813T163445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163448_20200813T163506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T163544_20200813T163628_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T171929_20200813T174532_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T174535_20200813T174707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T175009_20200813T175012_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T181009_20200813T181107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T181110_20200813T181536_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T181538_20200813T181608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T181611_20200813T181617_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T181829_20200813T184243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T194427_20200813T195134_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T195208_20200813T195357_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T195359_20200813T195410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T195436_20200813T195442_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T195445_20200813T200416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T200419_20200813T200502_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T200505_20200813T200648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T200650_20200813T200759_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200813T200801 20200813T201240 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T212627_20200813T212650_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T213019_20200813T213157_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T213208_20200813T213319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T213641_20200813T213750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T214301_20200813T214848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T224028_20200813T225321_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T231235_20200813T231409_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T231523_20200813T231558_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200813T231603 20200813T231614 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T231618_20200813T232005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200813T232052_20200813T233950_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.

0

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:
0

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.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200813T031647_20200813T033037_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is se indicating a degraded echo
5	. Level 2 Data Quality Chec	k
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: 0		
5.2 L2 Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH an	d SPH in order to identify any inconsistencies a	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 pr	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
Number of products with errors: 0		
5.4 L2 Auxiliary Correction Error Check		
CryoSat L2 data includes a correction error flag (field 30) for each measureme	nt record. The bit value of this flag indicates ar	y problems when set.
Number of products with errors: 0		
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 pro below, followed by a table of any additional issues arising from this test		al mode or surface type. All common flags are summarised in the list
Freeboard error: This flag is correctly set in all L2 SAR products that are not	discriminated as sea-ice, and for which freeboa	rd cannot be calculated.
Height and Backscatter errors: These flags are currently set for products ov this is to be expected.	er land, but this is to be expected. Retracker 1	Height and Backscatter error flags are also set for products over sea-ice, b
Peakiness error: This flag is currently set for products over sea-ice, but this is	s to be expected.	
SARIN X-Track Angle Error: This flag is set when the difference between the result this flag is set for L2 SARIn products in all other locations as expected.	e computed surface elevation and the DEM is >	50 m. The DEM is only available over Greenland and Antarctica and as a
SSHA interpolation error: This flag is currently set for a number of SAR proc	lucts occurring at surface type boundaries, but	this is to be expected.
Number of products with errors: 59		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200813T000430_20200813T002855_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_220200813T004812_20200813T010445_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
CS_OFFL_SIR_LRM_220200813T010926_20200813T011726_D001		for Retracker 3 for one or more records
	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
	Error (Retracker 2), Surface model	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_220200813T011815_20200813T012021_D001	Error (Retracker 2), Surface model unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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 There is a height and backscatter error for Retracker 2 and a height erro for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220200813T011815_20200813T012021_D001 CS_OFFL_SIR_LRM_220200813T013714_20200813T015326_D001	Error (Retracker 2), Surface model unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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 There 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 and a height error
CS_OFFL_SIR_LRM_220200813T011815_20200813T012021_D001 CS_OFFL_SIR_LRM_220200813T013714_20200813T015326_D001 CS_OFFL_SIR_LRM_220200813T015541_20200813T020959_D001	Error (Retracker 2), Surface model unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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 There 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 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
CS_OFFL_SIR_LRM_2_20200813T011815_20200813T012021_D001 CS_OFFL_SIR_LRM_2_20200813T013714_20200813T015326_D001 CS_OFFL_SIR_LRM_2_20200813T015541_20200813T020959_D001 CS_OFFL_SIR_LRM_2_20200813T022703_20200813T024115_D001 CS_OFFL_SIR_LRM_2_20200813T024254_20200813T030328_D001	Error (Retracker 2), Surface model unavailable         Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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 There 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 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 There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220200813T011815_20200813T012021_D001 CS_OFFL_SIR_LRM_220200813T013714_20200813T015326_D001 CS_OFFL_SIR_LRM_220200813T015541_20200813T020959_D001 CS_OFFL_SIR_LRM_220200813T022703_20200813T024115_D001	Error (Retracker 2), Surface model unavailable         Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 2)         Height Error (Retracker 2), Height Error (Retracker 2)	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 There 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 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 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 and a height error for Retracker 3 for one or more records There 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 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)

CS\_OFFL\_SIR\_LRM\_2\_\_20200813T033735\_20200813T035058\_D001

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

CS_OFFL_SIR_LRM_220200813T040703_20200813T042843_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_220200813T043543_20200813T044226_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200813T045436_20200813T045451_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_220200813T045519_20200813T050222_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_220200813T050443_20200813T050803_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_220200813T050805_20200813T053040_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_220200813T054751_20200813T061042_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_220200813T061232_20200813T062142_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_220200813T064330_20200813T070859_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_220200813T072539_20200813T075229_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_220200813T075913_20200813T080329_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_220200813T081514_20200813T084803_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_220200813T090444_20200813T090707_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_220200813T095638_20200813T100335_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_220200813T100621_20200813T102738_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_220200813T104513_20200813T105456_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_220200813T105644_20200813T110244_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_220200813T110448_20200813T110917_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_220200813T113117_20200813T120621_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_220200813T122538_20200813T125706_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_220200813T130935_20200813T132418_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_220200813T132843_20200813T132951_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_220200813T132959_20200813T134552_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_220200813T140327_20200813T141719_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_220200813T141932_20200813T143538_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_220200813T145902_20200813T150920_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_220200813T151100_20200813T152437_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_220200813T154459_20200813T155544_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

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CS_OFFL_SIR_LRM_220200813T155733_20200813T160311_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_220200813T160554_20200813T161522_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_220200813T161553_20200813T161604_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_220200813T164159_20200813T170251_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_220200813T171929_20200813T174532_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_220200813T180818_20200813T180849_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_220200813T181829_20200813T184243_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_220200813T185849_20200813T193151_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_220200813T194427_20200813T195134_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_220200813T195359_20200813T195410_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200813T195445_20200813T200416_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_220200813T200801_20200813T201240_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_220200813T203946_20200813T211132_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_220200813T212323_20200813T212352_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_220200813T212403_20200813T212538_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_220200813T214301_20200813T214848_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_220200813T221753_20200813T223903_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_220200813T224028_20200813T225321_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_220200813T231523_20200813T231558_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_220200813T232052_20200813T233950_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	155	155	155	0	0
SIR_SAR_1B	92	92	92	0	0
SIR_SIN_1B	96	96	96	0	0
SIR_LRM_2	155	155	146	9	0
SIR_SAR_2	96	92	92	0	0
SIR_SIN_2	92	96	94	2	0
SIR_GDR_2	14	14	0	0	14

# 6.1 QCC Errors

Number of products with QCC errors:

	Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	-	-
SIR_GDR_2 14 14 14 14 14 14 14 14 14 14 14 14 14	SIR_GDR_2_	14	14	14	14	14	14	14	14			

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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)

STRUCTURESIZEAND				
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)		
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)		
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)		
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)		

#### Number of QCC reports with warnings 11 Total number of occurrences of each warning Product Type AXDME AXSMMEOCI 0 2 9 0 SIR\_LRM\_2\_ SIR\_SIN\_2\_ Test Description Key: Abbreviation AXDME Test name AttributeXrefDemMustExist Details The xref\_dem attribute is mandatory in SIN products over continental ice AttributeXrefSlopeModelMustExistOverContinentalIce The xref\_slope\_model is mandatory in LRM products over continental ice AXSMMEOCI 6.2 Missing QCC Reports 0 Number of products with missing QCC reports: