

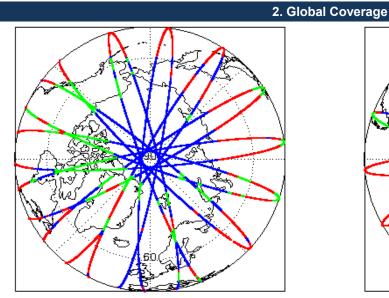
QA4EO Daily Report for OFFLINE data:

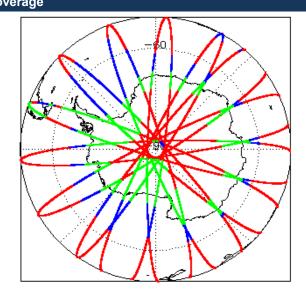
04/06/2020

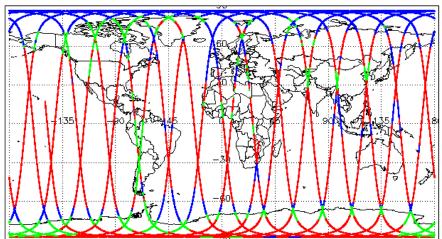
1. Overview Check

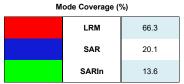
Report Production Date:	03-Jul-2020		Check	Status
Report Production Date.			Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor		Server check: calval-pds.cryosat.esa.int	Nominal
Processor used.	CryoSat ice Processor		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data		Product Format Check	Nominal
Data Oseu.			LIB and L2 OFFLINE Data	
			Star Tracker Usage Check	Nominal
			L1B Tracking Flag Check	See Section 4.4
			L1B Calibration Usage Check	Nominal
			L1B & L2 Auxiliary Data File Usage Check	Nominal
			L1B & L2 Auxiliary Correction Error Check	Nominal
			L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
			QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

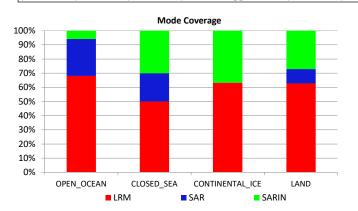
Mission / Instrument News				
03-Jun-2020	None			
04-Jun-2020	None			
05-Jun-2020	Nothing planned			

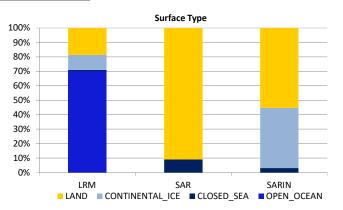












3. Instrument Configuration

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

SIRAL - A

SIRAL instrument(s) in use:

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.

88

Number of products with errors:

C2, OFFL, SHL, LMJ, 18, 20200801703527, 20200801703529, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012714, 20200801701272, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012714, 20200801701272, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records C3, OFFL, SHL, LMJ, 18, 202008017012732, D001 Loss of exho The tracking exho is missing for one or more records <tr< th=""><th>Product</th><th>Test Failed</th><th>Description</th></tr<>	Product	Test Failed	Description
CS_OFH_SIR_LRM_IB_20200011012012_202006011012012_D0001 Loss of exho The tracking exho is masing for one or more records CS_OFH_SIR_LRM_IB_20200001101114_20200001101278_D001 Loss of exho The tracking exho is masing for one or more records CS_OFH_SIR_LRM_IB_20200001101282_D00001101282_D001 Loss of exho The tracking exho is masing for one or more records CS_OFH_SIR_LRM_IB_20200001101282_D00001101282_D001 Loss of exho The tracking exho is masing for one or more records CS_OFH_SIR_LRM_IB_20200001101282_D00001101282_D001 Loss of exho The tracking exho is masing for one or more records CS_OFH_SIR_LRM_IB_20200001101282_D0000110282_D001 Loss of exho The tracking exho is masing for one or more records CS_OFFL_SIR_LRM_IB_2020000110282_D0001 Loss of exho The tracking exho is masing for one or more records CS_OFFL_SIR_LRM_IB_20200001104219_20200001104282_D001 Loss of exho The tracking exho is masing for one or more records CS_OFFL_SIR_LRM_IB_20200001104242_D0200001104552_D001 Loss of exho The tracking exho is masing for one or more records CS_OFFL_SIR_LRM_IB_20200001104542_D0200001106522_D001 Loss of exho The tracking exho is masing for one or more records CS_OFFL_SIR_LRM_IB_20200001106522_D001 Loss of exho The tracking exho is masing for one or more records CS_OFFL_SIR_LRM_IB_20200001107542_D0200011065	CS_OFFL_SIR_LRM_1B_20200603T235827_20200604T000416_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200041701214_202000417012145_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041701238_202000417012342_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041701238_2020000417012342_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041701238_2020000170342_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041704152_202000041704239_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041704219_20200041704230_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041704231_20200041704230_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041704231_20200041706337_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041706357_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041705420_2020001105057_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_1B_202000041707482_000011070252_D001 Loss of exho The tracking exho is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200604T011649_20200604T011656_D001	Loss of echo	The tracking echo is missing for one or more records
CB_OFFL_SIR_LRM_1B_202006H7012139_202006H7012136_D001Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LRM_1B_202006H7012359_2020000H7012324_D001Loss of echoThe tracking echo is missing for one or more recordsCB_OFFL_SIR_LRM_1B_202006H7012359_202000H7023404_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H701452202000H7024304_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H701452202000H7024304_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H7044031_202006H704203_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H704203_202000H704203_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H704203_202000H704223_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H704235_202000H706427_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H704255_202006H706222_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H70528_202000H706222_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H70738_20200H706242_D001Loss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H70738_20200H70743_20200HLoss of echoThe tracking echo is missing for one or more necordsCB_OFFL_SIR_LRM_1B_202006H70738_20200H70734_2	CS_OFFL_SIR_LRM_1B_20200604T012012_20200604T012050_D001	Loss of echo	The tracking echo is missing for one or more records
C2_OFF_SIR_LRM_18_2020041701253_20200841701258_200001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200041701258_20200641702026_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_202000641701258_20200641700260_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_202000641701462_20200641704027Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641704279_202006417040250_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641704279_20200641704226_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641704259_20200641704259_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641704547_20200641706457_D00164057_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641705557_20200641706457_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641705572_202006417061829_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641705742_20200641707239_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641707330_20200641707333_D0016Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_20200641707345_20200641707345_D001Loss of echoThe tracking echo is missing for one or more recordsC3_OFF_LSIR_LRM_18_202006417073	CS_OFFL_SIR_LRM_1B_20200604T012114_20200604T012127_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_2020004T012520_2020064T012520_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T012510_2020064T02230_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T024152_2020064T04230_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T04212_20200664T04230_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T04203_2020064T04203_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T04203_2020064T04203_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T04203_2020064T04228_D0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200064T06453_2020064T06545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T06545_2020064T06545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T06545_2020064T06545_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T076452_2020064T076352_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T076345_2020064T076345_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T076345_2020064T076345_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T076345_20200064T07634	CS_OFFL_SIR_LRM_1B_20200604T012139_20200604T012145_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_2020004T015518_2020064T020028_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T024162_2020064T02430_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T024021_2020064T04027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T024021_2020064T04023_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T04205_2020064T04205_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T04205_2020064T04205_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T04205_2020064T06426_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T055512_2020064T06624_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T076552_2020064T06624_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T07428_2020064T07638_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T07382_2020064T07383_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T07384_2020064T07383_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T07384_2020064T07383_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T07384_2020064T07384_D001	CS_OFFL_SIR_LRM_1B_20200604T012553_20200604T012736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200647024152_020064704230_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647104219_2020064704203_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647104203_2020064704203_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647104203_20200641704203_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647104203_20200641704235_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647105253_20200641706253_20200641706252_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647062553_20200641706252_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647061855_20200641706254_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200647071748_2020064707238_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200641707282_0200641707283_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200641707383_02000641707283_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200641707383_02000641707343_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200641707345_20200641707343_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064170734	CS_OFFL_SIR_LRM_1B_20200604T012920_20200604T013242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_2020004T040241_2020004T040230_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020004T040231_2020004T040230_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020004T040230_2020004T042250_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200004T062453_2020004T062537_D020004T062520_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200004T062537_2020004T062537_D0210004T06522_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200004T06516_20200004T06522_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200004T061542_2020004T061522_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200004T06152_2020004T06152_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200004T06152_2020004T07252_D020004T07253_D0200	CS_OFFL_SIR_LRM_1B_20200604T015518_20200604T020026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_2020064T040219_2020064T040230_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T042031_2020064T042059_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T042052_2020064T042059_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T05437_2020064T054057_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T054527_2020064T054057_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T054516_2020064T054052_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T054552_2020064T061852_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T073452_2020064T073452_D00164063147_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T073432_D020064T073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T073432_D00064T073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T073452_2020064T073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T073452_2020064T073452_D00064T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020064T073452_2020064T073452_D00064T073452_D00064T073452_D00064T073452_D00064T073452_D00064T073452_D00064T073452_D00064T073452_D00064T073452_D00064T0	CS_OFFL_SIR_LRM_1B_20200604T024152_20200604T024304_D001	Loss of echo	The tracking echo is missing for one or more records
CG_OFFL_SIR_LRM_1B_20200604T042031_20200604T042059_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T062537_20200604T050837_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T052537_20200604T050837_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T052537_20200604T0505222_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T055516_20200604T060522_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T06155_0220200604T061829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072827_20200604T072832_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072827_20200604T072839_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073432_D0200604T073432_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073432_D0200604T073432_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D0200604T073452_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D0200604T073452_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D0200604T073452_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFF	CS_OFFL_SIR_LRM_1B_20200604T034644_20200604T040217_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T042053_20200604T042259_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T05457_20200604T050337_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T05459_20200604T05252_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T054559_20200604T05252_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T051748_20200604T061345_20200604T063147_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T0717282_0200604T07282_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07282_02000604T07282_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T077282_02000604T077282_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T077345_02000604T073452_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_00004T073452_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_000064T073452_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_000064T073452_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_0200604T073452_0200604T09310_001Loss of echoThe tracking echo is missing for one or more records <td>CS_OFFL_SIR_LRM_1B_20200604T040219_20200604T040230_D001</td> <td>Loss of echo</td> <td>The tracking echo is missing for one or more records</td>	CS_OFFL_SIR_LRM_1B_20200604T040219_20200604T040230_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_2020604170542537_2020060417054259_2020060417054259_2020060417055222_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417054259_2020060417055222_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417055257_2020060417055222_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202006041705184_2020060417061842_202006041705182_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417072822_2020060417072822_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417072822_2020060417072822_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417072822_2020060417072822_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417073432_020060417073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417073432_020060417073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417073432_020060417073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417073432_020060417073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417073432_020060417073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020060417073432_02006041709312_D001Loss of echoThe tracking echo	CS_OFFL_SIR_LRM_1B_20200604T042031_20200604T042050_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T052537_20200604T055252_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T055516_20200604T065222_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T061555_020200604T061829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T061855_020200604T061829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T0715202_0200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072927_20200604T072939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072927_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073436_20200604T073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07345_20200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T075452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T075452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T075452_0200604T094502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B	CS_OFFL_SIR_LRM_1B_20200604T042053_20200604T042259_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T05512_2020604T055222_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T055516_20200604T061748_20200604T0617829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T061784_20200604T061829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07820_20200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072827_20200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072827_20200604T072939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07343_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07345_20200604T073452_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07345_20200604T073452_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T075704_20200604T093452_0200604T093452_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T093452_0200604T09345_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T093512_0001Loss of echoThe tracking echo is missing for one or more records <td>CS_OFFL_SIR_LRM_1B_20200604T045447_20200604T050837_D001</td> <td>Loss of echo</td> <td>The tracking echo is missing for one or more records</td>	CS_OFFL_SIR_LRM_1B_20200604T045447_20200604T050837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T055516_2020604T060246_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T061748_20200604T061829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T0702820_20200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072927_20200604T072939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073330_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073436_20200604T073432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_0200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T07504_20200604T094130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09132_02000604T09135_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09133_20200604T09131_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200	CS_OFFL_SIR_LRM_1B_20200604T052537_20200604T054057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T061749_20200604T061829_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072820_20200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T072927_20200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073927_20200604T07330_20200604T07333_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073436_20200604T07343_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_D0200604T074215_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T093352_20200604T09130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09132_0200604T091315_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09133_20200604T09133_0200604T091315_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09133_0200604T091315_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09131_0200060	CS_OFFL_SIR_LRM_1B_20200604T054259_20200604T055222_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200604T061855_20200604T062935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T072927_20206604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T072927_20206604T072939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073433_0_00206604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073435_20206604T073443_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073455_20206604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073455_20200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T075704_20200604T083014_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T084502_20200604T091310_20200604T091310_20200604T091310_Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T091330_20200604T091310_20200604T091311_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T0933510_20200604T093715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T093510_20200604T093715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T093510_20200604T093317_D001Loss of echoThe tracking echo is missing for one or more re	CS_OFFL_SIR_LRM_1B_20200604T055516_20200604T060246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20200604T072820_20200604T072925_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T072827_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073436_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073436_20200604T073445_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073455_20200604T073452_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T073455_20200604T074215_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T075704_20200604T074215_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T075704_20200604T083512_20200604T084130_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T091332_020200604T091815_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T093351_020200604T093715_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T094056_20200604T09410_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T09404026_20200604T094017_D0011Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200604T094104_20200604T094017_D0001Loss of echoThe tracking echo is missing for one or more records <td>CS_OFFL_SIR_LRM_1B_20200604T061748_20200604T061829_D001</td> <td>Loss of echo</td> <td>The tracking echo is missing for one or more records</td>	CS_OFFL_SIR_LRM_1B_20200604T061748_20200604T061829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T072927_20200604T072939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073330_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073436_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073455_20200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073455_20200604T073452_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073452_20200604T073452_20200604T073452_20200604T073452_20200604T083152_20200604T084130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T084562_20200604T091320_20200604T091815_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T091332_0200604T091415_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T091332_0200604T091415_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T091332_0200604T09140_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T093510_20200604T09315_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T093430_20200604T09315_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T093410_20200604T094100_D001Loss of echoThe trackin	CS_OFFL_SIR_LRM_1B_20200604T061855_20200604T063147_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T073330_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073436_20200604T073445_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073455_20200604T073455_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T073455_20200604T083014_D001Loss of echoCS_OFFL_SIR_LRM_1B_20200604T073552_20200604T083014_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073552_20200604T084130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T084502_20200604T09922_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09132_20200604T091815_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09133_20200604T093715_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094056_20200604T094010_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094104_20200604T094017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094104_20200604T094017_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094104_20200604T09001Loss of echo </td <td>CS_OFFL_SIR_LRM_1B_20200604T072820_20200604T072925_D001</td> <td>Loss of echo</td> <td>The tracking echo is missing for one or more records</td>	CS_OFFL_SIR_LRM_1B_20200604T072820_20200604T072925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T073436_20200604T073433_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073455_20200604T073455_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T073455_20200604T073455_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T075704_20200604T083014_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T083552_20200604T084130_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T084502_20200604T09922_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T091320_20200604T091815_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T091320_20200604T091815_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T09133_0200604T091940_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094104_20200604T094317_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094319_20200604T1094317_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094319_20200604T10930_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200604T094319_20200604T1094317_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1	CS_OFFL_SIR_LRM_1B_20200604T072927_20200604T072939_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20200604T102326_20200604T105002_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20200604T105014_20200604T105123_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200604T105226_20200604T105505_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T105539_20200604T105802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T121127_20200604T121754_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T121930_20200604T122535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T123110_20200604T123208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T123219_20200604T123446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T125405_20200604T132726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T140352_20200604T140846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T140919_20200604T140924_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T140926_20200604T141059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T143013_20200604T143019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T145439_20200604T150549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T151356_20200604T151754_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T160848_20200604T161054_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T162759_20200604T162922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T162925_20200604T162951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T170326_20200604T171613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T171827_20200604T173130_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T174757_20200604T175415_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T175750_20200604T180240_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T180242_20200604T180817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T180957_20200604T182409_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T184415_20200604T184515_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T184518_20200604T184635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T184954_20200604T185203_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T185740_20200604T185921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T190327_20200604T191029_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T192532_20200604T192535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T192641_20200604T193211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T193236_20200604T193555_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T193855_20200604T193902_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T193905_20200604T193906_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T193908_20200604T193920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T193926_20200604T194022_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T201126_20200604T201309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T201742_20200604T204105_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T204107_20200604T204107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T204111_20200604T204212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T204214_20200604T205159_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T210908_20200604T211342_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T215025_20200604T215349_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T224653_20200604T225158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T225249_20200604T225342_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T225344_20200604T225429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T225431_20200604T225431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200604T225436_20200604T225445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_0FFL_SIR_LRM_1B_20200604T225447_20200604T231602_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.

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Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

 Number of products with errors:
 0

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

Phase Perturbation Flag: This flag is currently set for	all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configu	ration.
Number of products with errors:	0	

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:

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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_220200604T002748_20200604T010130_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_220200604T011434_20200604T011537_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_220200604T012012_20200604T012050_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_220200604T013404_20200604T015210_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_220200604T020638_20200604T024046_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_220200604T024152_20200604T024304_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200604T030505_20200604T030925_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_220200604T031022_20200604T032758_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_220200604T034644_20200604T040217_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_220200604T040219_20200604T040230_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_220200604T040344_20200604T040504_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_220200604T040829_20200604T041636_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_220200604T042053_20200604T042259_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200604T043536_20200604T045329_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_220200604T045447_20200604T050837_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_220200604T052537_20200604T054057_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_220200604T054259_20200604T055222_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_220200604T061748_20200604T061829_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_220200604T061855_20200604T063147_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_0FFL_SIR_LRM_220200604T070518_20200604T072003_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_220200604T075704_20200604T083014_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_0FFL_SIR_LRM_220200604T084502_20200604T090922_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_220200604T094104_20200604T094317_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_220200604T094319_20200604T100900_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_220200604T102326_20200604T105002_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_220200604T110007_20200604T110044_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_220200604T111514_20200604T114751_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_0FFL_SIR_LRM_220200604T123905_20200604T124049_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_220200604T125405_20200604T132726_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_220200604T134153_20200604T140033_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_220200604T143220_20200604T145329_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_220200604T145439_20200604T150549_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_220200604T152210_20200604T154855_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_220200604T154911_20200604T155614_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_220200604T161227_20200604T162317_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20200604T162759_20200604T162922_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_220200604T162955_20200604T164523_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20200604T170326_20200604T171613_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_220200604T171827_20200604T173130_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20200604T175750_20200604T180240_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_220200604T180242_20200604T180817_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20200604T180957_20200604T182409_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_220200604T184954_20200604T185203_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_220200604T185924_20200604T190204_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_220200604T190327_20200604T191029_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_220200604T192532_20200604T192535_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200604T193236_20200604T193555_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_0FFL_SIR_LRM_220200604T194209_20200604T194430_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_220200604T194632_20200604T200255_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_220200604T201742_20200604T204105_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_220200604T211750_20200604T214248_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_220200604T215720_20200604T222423_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_220200604T225447_20200604T231602_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_220200604T231639_20200604T232228_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_220200604T233636_20200605T001024_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	154	154	154	0	0
SIR_SAR_1B	110	110	110	0	0
SIR_SIN_1B	98	98	98	0	0
SIR_LRM_2	154	154	149	5	0
SIR_SAR_2	98	110	110	0	0
SIR_SIN_2	110	98	94	4	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

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

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6.2 QCC Warnings

Number of QCC reports with warnings

Total number of occurrences of each warning							
Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	-	-	-
SIR_LRM_2_	0	3	2	2			
SIR_SIN_2_	4	0	0	0			

Abbreviation	Test name	Details
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean	The xref_ssb is mandatory in LRM products over open ocean
AXWMMEOOO	AttributeXrefWindModelMustExistOverOpenOcean	The xref_wind_model attribute is mandatory in LRM products over open ocean

6.2 Missing QCC Reports

Number of products with missing QCC reports: