

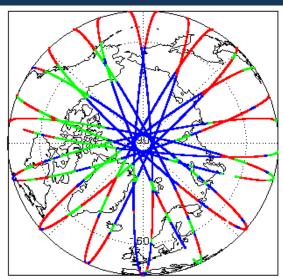
1. Overview

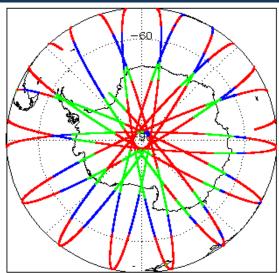
Report Production Date:	06-Jan-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

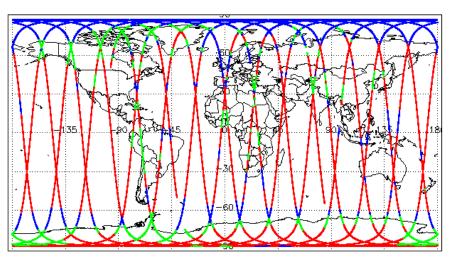
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

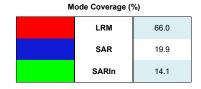
Mission / Instru	Mission / Instrument News				
25-Nov-2020	SIRAL unavailability due to OCM from 18:02:05 to 19:48:17				
26-Nov-2020	None				
27-Nov-2020	Nothing planned				

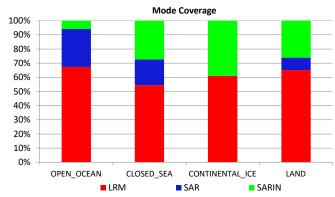
2. Global Coverage

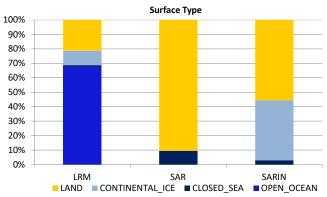












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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:

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4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B Tracking Flags Check

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

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

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201125T235820_20201126T002251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T002624_20201126T003100_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T004808_20201126T005107_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T005109_20201126T005133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T005405_20201126T005434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T005436_20201126T012120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T013742_20201126T015753_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T015756_20201126T020242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T020245_20201126T020349_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T020355_20201126T020359_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T020401_20201126T020543_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T020623_20201126T020806_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T020840_20201126T021120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T032507_20201126T032842_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T032846_20201126T033017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T033315_20201126T033839_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T034418_20201126T034457_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T034516_20201126T034646_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T034646_20201126T034752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T035119_20201126T035121_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T051654_20201126T052202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T052240_20201126T052403_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T062702_20201126T063103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072156_20201126T072248_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072252_20201126T072258_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072301_20201126T072307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072312_20201126T072347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072349_20201126T072349_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072352_20201126T072412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T072417_20201126T073620_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T074102_20201126T074215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T074217_20201126T074232_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T074234_20201126T074241_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T074246_20201126T075325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T081653_20201126T082921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T090104_20201126T090220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T090223_20201126T090355_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T090359_20201126T090442_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T090447_20201126T090700_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T091053_20201126T092000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T092226_20201126T093700_D001	Loss of echo	The tracking echo is missing for one or more records

Company Comp	CS_OFFL_SIR_LRM_1B_20201126T095753_20201126T100113_D001	Loss of echo	The tracking echo is missing for one or more records
Comp. 100, 100, 100, 100, 100, 100, 100, 100			
Dec. Company Dec.			·
Co. CPT_10_11_CO			
Dec. Company			·
Description			
Company Comp			
Co. P. 15, R. 1981, 19. 2001 1071111 10.20 2011 107111 10.00 1			
Compact Comp			·
Co. CHE, SEL, LIM, 19, 20011071111402, 20011111111002, 20011011110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 2001101110002, 20011011010002, 20011011010002, 20011011010002, 20011011010002, 20011011010002, 20001011010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 200010101010002, 20001010101010002, 200010101010002, 200010100002, 200010000000000			
The CHEFFE, RELIGION SECRETARISTICS CONTROLLED CONTROLL			·
Company Comp			
Compage Comp			
Co., OPT_CRI_NUL_NUL_R_20001107112002220_20001127112000_00001 Co., OPT_CRI_NUL_NUL_R_20001107112002_20001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_0001127112000_00011271120000_000112712000_000112712000_000112712000_000112712000_0001127120000_0001127120000_000112712000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000_0001127120000001127120000_0001127120000_0001127120000_0001127120000001127120000001127120000001127120000001127120000001127120000001127120000001127120000000112712000000112712000000112712000000112712000000112712000000011271200000001127120000000112712000000011271200000001127120000000112712000000011271200000001127120000000112712000000011271200000000			
Compt. St. Lent 18 2001138712222 2001128112225 DOI			
CS_OFF_BILL_MILL_18_2001128112003_2001128110006_2001128110001_Cost of erbo CS_OFF_BILL_MILL_18_2001128112003_2001128110001_Cost of erbo CS_OFF_BILL_MILL_18_2001128110006_2001128110001_Cost of erbo CS_OFF_BILL_MILL_18_2001128110006_2001128110001_Cost of erbo CS_OFF_BILL_MILL_18_2001128110006_2001128110001_Cost of erbo CS_OFF_BILL_MILL_18_2001128110006_2001128110001_Cost of erbo CS_OFF_BILL_MILL_18_2001128110006_2001128110000_Cost of erbo CS_OFF_BILL_MILL_18_2001128110006_2001128110000_Cost of erbo CS_OFF_BILL_MILL_18_2001128110000_Cost of erbo CS_OFF_BILL_MILL_18_2001128110000_Cost of erbo CS_OFF_BILL_MILL_18_20011281100000_Cost of erbo CS_OFF_BILL_MILL_18_2001128110000_Cost of erbo CS_OFF_BILL_MILL_18_2001128110000_Cost of erbo CS_OFF_BILL_MILL_18_20011281100000_Cost of erbo CS_OFF_BILL_MILL_18_20011281100000_Cost of erbo CS_OFF_BILL_MILL_18_200112811000000000000000000000000000			
Co. CHE_SIN_LINE_18_2001195113038_200119513038_20011			·
Co. CPT_SRL_INL_IB_2001195113669_2001125114690_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_2001136114690_2001125114680_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_2001136114690_2001126114680_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_2001136114690_2001126114680_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_2001156114680_2001126115680_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_20011561113600_2001126115860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_20011561113600_2001126115860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_20011561113600_2001126115860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200112611513600_2001126115860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200112611513600_2001126115860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200112611515600_2001126115860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_20001126115660_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_20001126115660_2001126116860_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200011261161600_200101 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200011261161600_20011 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200011261161600_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200011261161600_2001 Los of echo The tracking echo is missing for one or more records Co. CPT_SRL_INL_IB_200011261161600_20011 Los of echo			
GB_CPF_SR_LEN_B_20011061134068_20011061144069_0001 CB_CPF_SR_LEN_B_2001106114068_20011061144067_0001 Less of eicho CB_CPF_SR_LEN_B_2001106114068_20011061144067_0001 Less of eicho CB_CPF_SR_LEN_B_2001106114068_20011061144067_0001 Less of eicho CB_CPF_SR_LEN_B_2001126114068_2001126114067_0001 Less of eicho CB_CPF_SR_LEN_B_2001126114068_2001126114067_0001 Less of eicho CB_CPF_SR_LEN_B_2001126114068_2001126114067_0001 Less of eicho CB_CPF_SR_LEN_B_2001126114068_2001126114060_0001 Less of eicho CB_CPF_SR_LEN_B_20011261140614_2001126114060_0001 Less of eicho CB_CPF_SR_LEN_B_20011261140614_2001126114060_0001 Less of eicho CB_CPF_SR_LEN_B_20011261140614_2001126114060_0001 Less of eicho CB_CPF_SR_LEN_B_20011261140614_20011261140010_0001 Less of eicho CB_CPF_SR_LEN_B_20011261140600_200011261140010_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140600_200011261140010_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140600_200011261140010_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140600_200011261140010_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140000_200011261140010_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140000_200011261140000_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140000_2000112611400000_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140000_2000112611400000_0001 Less of eicho CB_CPF_SR_LEN_B_200011261140000_2000112611400000_0001 Less of eicho CB_CPF_SR_LEN_B_20001126114			
CS_OPFL_SR_LEM_18_2001120T140548_20001120T14050_0001 CS_OPFL_SR_LEM_18_2001120T14051_20001120T14050_0001 CS_OPFL_SR_LEM_18_2001120T14051_20001120T150548_0001 Cso of each The texting och is insisting for ene or more records CS_OPFL_SR_LEM_18_2001120T14051_20001120T150548_0001 Cso of each The texting och is insisting for ene or more records CS_OPFL_SR_LEM_18_20001120T15058_20001120T15058_0001 Cso of each The texting och is insisting for ene or more records CS_OPFL_SR_LEM_18_20001120T15058_20001120T15058_0001 Cso of each The texting och is insisting for ene or more records CS_OPFL_SR_LEM_18_20001120T15058_20001120T15058_0001 Cso of each The texting och is insisting for ene or more records CS_OPFL_SR_LEM_18_20001120T15052_0001120T15058_0001 Cso of each The texting each is insisting for ene or more records CS_OPFL_SR_LEM_18_20001120T15052_0001120T150564_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150562_0001120T150560_0001 Cs_OPFL_SR_LEM_18_20001120T150560_000101 Cs_OPFL_SR_LEM_18_20001120T150560_			
GS_OFFL_SIR_LEM_18_20011061140744_200011061140400_0001 GS_OFFL_SIR_LEM_18_2001106114074_20001106114060_0001 GS_OFFL_SIR_LEM_18_2001106114074_20001106114060_0001 GS_OFFL_SIR_LEM_18_2001106115000_00011061150405_0001 GS_OFFL_SIR_LEM_18_2001106115000_00011071150405_0001 GS_OFFL_SIR_LEM_18_2001106115000_00011071150405_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_0001107115000_0001 GS_OFFL_SIR_LEM_18_2001106115000_00011071170000_0001 GS_OFFL_SIR_LEM_18_2001106115000_000011071170000_0001 GS_OFFL_SIR_LEM_18_2001106115000_000011071170000_0001 GS_OFFL_SIR_LEM_18_2001106115000_00001107117000_0001 GS_OFFL_SIR_LEM_18_2001106115000_00001107117000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107117000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107117000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107117000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107117000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_00001107116000_0001 GS_OFFL_SIR_LEM_18_20001106115000_0001107160000_0001 GS_OFFL_SIR_LEM_18_20001106115000_0001107160000_0001 GS_OFFL_SIR_LEM_18_20001106115000_0001107160000_0001 GS_OFFL_SIR_LEM_18_20001106115000_0001107160000_0001 GS_OFFL_SIR_LEM_18_20001106115000_0001107160000_0001 GS_OFFL_SIR_LEM_18_200011061150000_00011071600000000000000000000000000			
CS_OFFL_SIR_LRM_18_20021126T144234_20001126T15348_0010			
CS_OFFL_SR_LRM_18_20201128T14513_20201128T15246_001			
CS_OFFL_SR_LRM_18_20201128T158588_20201128T158585_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T15919_20201128T158584_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T15919_20201128T158584_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T15919_20201128T158584_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T1592853_20201128T15939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T102804_20201128T100029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T10290_2020128T100029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T17297_2020128T100029_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T17298_D00128T17298_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T17298_D00128T17298_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T17298_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172919_D0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172919_D00128T172918_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T181919_D00128T172918_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T181919_D00128T181919_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T181919_D00128T181919_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T181919_D00128T181919_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T181993_D00128T1819			
CS_OFF_SR_LRM_18_20001128T14411_2001128T15455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16595_20001128T15455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16595_20001128T15595_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16595_20001128T100138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16595_20001128T100138_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16055_20001128T100189_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T1671573_20001128T100189_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T1671573_20001128T10258_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T17239_20001128T17234_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T17239_20001128T17234_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T17239_20001128T17234_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T17239_20001128T17345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16950_20001128T16950_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16950_20001128T16950_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16950_20001128T16950_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16950_20001128T16950_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRM_18_20001128T16950_20001128T16950_D001 Loss of echo The tracking echo is missing for one or more records			
CS_OFFL_SR_LRM_18_2020112871593_20201128715951_D001 CS_OFFL_SR_LRM_18_20201128715953_202011287159514_D001 CS_OFFL_SR_LRM_18_20201128715953_20201128716919_D001 CS_OFFL_SR_LRM_18_20201128715953_20201128716919_D001 CS_OFFL_SR_LRM_18_20201128715953_20201128716919_D001 CS_OFFL_SR_LRM_18_20201128715953_20201128716919_D001 CS_OFFL_SR_LRM_18_20201128715953_20201128716919_D001 CS_OFFL_SR_LRM_18_20201128715953_20201128716920_D001 CS_OFFL_SR_LRM_18_20201128715920_20201128716920_D001 CS_OFFL_SR_LRM_18_2020112871590_20201128716920_D001 CS_OFFL_SR_LRM_18_2020112871590_20201128717244_D001 CS_OFFL_SR_LRM_18_20201128717290_20201128717244_D001 CS_OFFL_SR_LRM_18_20201128717290_20201128717345_D001 CS_OFFL_SR_LRM_18_20201128717290_20201128717345_D001 CS_OFFL_SR_LRM_18_20201128717290_20201128717345_D001 CS_OFFL_SR_LRM_18_20201128717391_202011287169_D001 CS_OFFL_SR_LRM_18_20201128717391_202011287169_D001 CS_OFFL_SR_LRM_18_202011287187180_20201128716910_D001 CS_OFFL_SR_LRM_18_202011287187180_2020112871690_D001 CS_OFFL_SR_LRM_18_202011287187180_2020112871690_D001 CS_OFFL_SR_LRM_18_202011287187180_2001 CS_OFFL_SR_LRM_18_202011287187180_D001 CS_OFFL_SR_LRM_18_202011287187180_D001 CS_OFFL_SR_LRM_18_202011287187180_D001 CS_OFFL_SR_LRM_18_202011287187180_D001 CS_OFFL_SR_LRM_18_2020112871871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871871800_D001 CS_OFFL_SR_LRM_18_2020112871871800_D001 CS_OFFL_SR_LRM_18_2020112871871800_D001 CS_OFFL_SR_LRM_18_2020112871871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_2020112871800_D001 CS_OFFL_SR_LRM_18_20201128718000_D001 CS_OFFL_SR_LRM_18_20201128718000_D001 CS_OFFL_SR_LRM_18_20201128718000_D001 CS_OFFL_SR_LRM_18_20201128718000_D001 CS_OFFL_SR_LRM_18_202011287180			
CS_OFFL_SIR_LRM_1B_20201128T155139_200201128T155514_D001 CS_OFFL_SIR_LRM_1B_20201128T15515517_2001128T155554_D001 CS_OFFL_SIR_LRM_1B_20201128T15055_20011128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T16055_20001128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160515_20001128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160515_20001128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160515_2000128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160515_2000128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160515_2000128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T172509_D001 CS_OFFL_SIR_LRM_1B_20201128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160509_D001 CS_OFFL_SIR_LRM_1B_20201128T160109_D001 CS_OFFL_SIR_LRM_1B_20201128T160109_D001 CS_OFFL_SIR_LRM_1B_20201128T161119_2001128T162009_D001 CS_OFFL_SIR_LRM_1B_20201128T161119_2001128T162009_D001 CS_OFFL_SIR_LRM_1B_20201128T161119_2001128T162009_D001 CS_OFFL_SIR_LRM_1B_20201128T161119_2001128T162009_D001 CS_OFFL_SIR_LRM_1B_20201128T161119_2001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_2001001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_2001001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T16119_20001128T16309_D001 CS_OFFL_SIR_LRM_1B_20201128T161190000_D001 CS_OFFL_SIR_LRM_1B_20201128T161190000_D001 CS_OFFL_SIR_LRM_1B_20201128T1000000_D001 CS_OFFL_SIR_L			
CS_OFFL_SIR_LRM_1B_20201128T15667_20201128T16953_0001			·
CS_OFFL_SR_LRM_18_20201128T10245_20201128T10509_D001 Loss of echo S_OFFL_SR_LRM_18_20201128T10245_20201128T10509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T10245_20201128T102509_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172309_20201128T172344_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172309_20201128T172344_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172309_20201128T172344_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172309_20201128T172344_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T172810_20201128T19158_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184114_20201128T18403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184114_20201128T18403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184114_20201128T184111_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184413_20201128T1841000_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184402_20201128T184403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184402_20201128T184403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184402_20201128T184403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184402_20201128T184403_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_20201128T184402_20201128T18400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_18_			
CS_OFFL_SR_LRM_1B_20201126T160313_20201126T160502_0001 CS_OFFL_SR_LRM_1B_20201126T160313_20201126T160532_0001 CS_OFFL_SR_LRM_1B_20201126T160313_20201126T160532_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T162552_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T17244_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T17244_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T17245_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T17245_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T17245_0001 CS_OFFL_SR_LRM_1B_20201126T172302_0201126T17245_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T16400_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T164000_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T164000_0001 CS_OFFL_SR_LRM_1B_20201126T180008_02001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T164000_0001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T164000_0001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T164000_0001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T164000_0001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T164000_0001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T164000_0001126T164000_0001 CS_OFFL_SR_LRM_1B_202001126T16400000000000000000000000000000000000			
CS_OFF_SIR_LRM_IB_20201126T169513_20201126T169552_0001			
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CS_OFFL_SIR_LRM_1B_20201126T201834_20201126T201921_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T201951_20201126T201949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T201951_20201126T201953_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T201956_20201126T201959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202056_20201126T202026_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202088_20201126T202037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202040_20201126T202044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202046_20201126T202119_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T200413_20201126T200528_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T201924_20201126T201949_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T201951_20201126T201953_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T201956_20201126T201959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202005_20201126T202026_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202028_20201126T202037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202040_20201126T202044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202046_20201126T202119_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T201007_20201126T201708_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T201951_20201126T201959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T20205_20201126T201959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T20205_20201126T202026_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202028_20201126T202037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202040_20201126T202044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202046_20201126T202119_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T201834_20201126T201921_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T201956_20201126T202059_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202005_20201126T202037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202028_20201126T202037_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202040_20201126T202044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202046_20201126T202119_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T201924_20201126T201949_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201126T202040_20201126T202044_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T202005_20201126T202026_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T202046_20201126T202119_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202309_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T202028_20201126T202037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202309_D001 Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T202040_20201126T202044_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T202133_20201126T202259_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T202046_20201126T202119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T202302_20201126T202309_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201126T202122_20201126T202131_D001	Loss of echo	The tracking echo is missing for one or more records
		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T202313_20201126T202426_D001 Loss of echo The tracking echo is missing for one or more records			
	CS_OFFL_SIR_LRM_1B_20201126T202313_20201126T202426_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201126T202428_20201126T202434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T204536_20201126T205409_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T205623_20201126T205922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T210029_20201126T211159_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T213513_20201126T214157_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T214337_20201126T215805_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215808_20201126T215816_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215820_20201126T215827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215831_20201126T215843_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215847_20201126T215850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215852_20201126T215856_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215901_20201126T215907_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T215948_20201126T220514_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T221710_20201126T221905_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T222027_20201126T222339_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T222859_20201126T223340_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T223343_20201126T223348_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T225547_20201126T230426_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T233637_20201126T233637_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T233640_20201126T233651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T233726_20201126T233732_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T233736_20201126T233751_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201126T233754_20201126T234253_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

Ο

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

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)

lumber of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

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:

64

Number of products with errors: 64		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201125T235820_20201126T002251_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_20201126T005436_20201126T012120_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_220201126T013742_20201126T015753_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_20201126T015756_20201126T020242_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_220201126T021226_20201126T021435_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_220201126T022831_20201126T025925_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_220201126T031700_20201126T032102_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_220201126T040658_20201126T043950_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_220201126T045732_20201126T051342_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_220201126T051654_20201126T052202_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_220201126T053135_20201126T053200_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_220201126T054433_20201126T061837_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_220201126T063559_20201126T070139_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_220201126T072417_20201126T073620_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_220201126T074102_20201126T074215_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_220201126T074246_20201126T075325_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_220201126T081653_20201126T082921_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_20201126T083132_20201126T084933_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_220201126T091053_20201126T092000_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_220201126T092002_20201126T092024_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_220201126T092226_20201126T093700_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_220201126T095249_20201126T095448_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_220201126T101049_20201126T101512_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_220201126T101635_20201126T101901_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_220201126T102012_20201126T102024_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_220201126T102509_20201126T102638_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_220201126T104432_20201126T104524_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201126T104526_20201126T104539_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201126T104855_20201126T104910_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201126T110014_20201126T111552_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_220201126T113117_20201126T115551_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_220201126T123023_20201126T125457_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_220201126T131059_20201126T133734_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_220201126T133859_20201126T134204_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_220201126T140754_20201126T143406_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_220201126T145131_20201126T152346_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_220201126T153626_20201126T153856_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_220201126T162951_20201126T165107_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_220201126T165352_20201126T170359_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_220201126T171509_20201126T171918_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_220201126T172454_20201126T172508_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_220201126T173512_20201126T173959_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_220201126T174147_20201126T175158_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_220201126T180906_20201126T181402_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_220201126T181411_20201126T182034_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_220201126T182211_20201126T184111_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_220201126T184113_20201126T184300_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_220201126T185838_20201126T190509_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_220201126T190532_20201126T192937_D001	Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201126T200131_20201126T200403_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_220201126T200413_20201126T200528_D001	Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220201126T201007_20201126T201708_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_220201126T204536_20201126T205409_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_220201126T210029_20201126T211159_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
	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_220201126T213513_20201126T214157_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
	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_220201126T215948_20201126T220514_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	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
	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	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_220201126T222859_20201126T223340_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_220201126T223651_20201126T225216_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_220201126T230728_20201126T232922_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

6. QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	199	199	199	0	0
SIR_SAR_1B	125	125	125	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_LRM_2	195	195	192	3	0
SIR_SAR_2	109	121	121	0	0
SIR_SIN_2	121	109	107	2	0
SIR GDR 2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

15

	Product Type	WIFHDOTNCDF	WIFHAFFNODF	WIFHAVENCOF	WIFHTFFNODF	WIFHTVFNCDF	WIFHZFFNCDF	WIFHZVFNCDF	EANDREAD	-	-	•
	SIR_GDR_2_	15	15	15	15	15	15	15	15			
G	F4 D											
Щ	Test Description	n Key:										

Test Description Key:					
Abbreviation	Test name	Details			
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch			
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)			
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)			
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)			
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)			
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)			
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)			
STRUCTURESIZEAND STRUCTURE_SIZE_AND_READ		Under investigation.			

6.2 QCC Warnings

Number of QCC reports with warnings

5

Total number of occurrences of each warn	ing
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Product Type	AXDME	AXSMMEOCI	-	•	•	-	•
SIR_LRM_2_	0	3					
SIR_SIN_2_	2	0					

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

6.2 Missing QCC Reports