

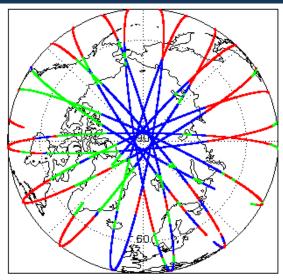
# 1. Overview

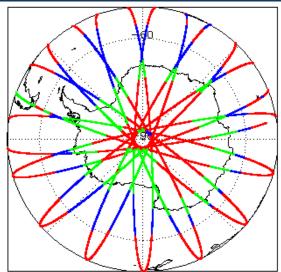
Report Production Date:	06-Jan-2021		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

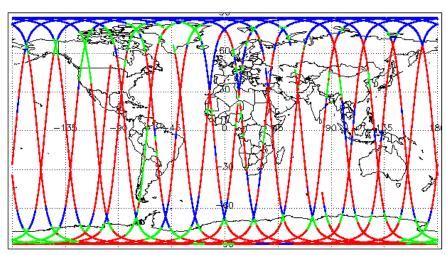
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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

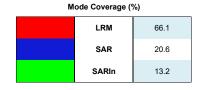
Mission / Instrument News					
26-Nov-2020	None				
27-Nov-2020	None				
28-Nov-2020	Nothing planned				

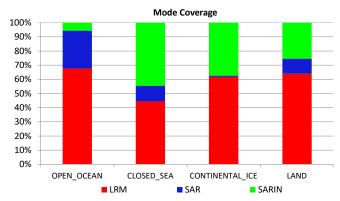
# 2. Global Coverage

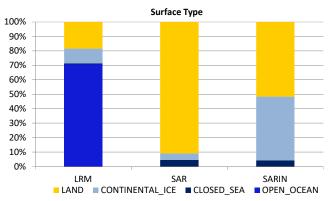












## 3. Instrument Configuration

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.

lumber of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201126T235739_20201127T000611_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T000614_20201127T000707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T000711_20201127T003102_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T005051_20201127T011248_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T011250_20201127T011459_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T011605_20201127T011918_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T011918_20201127T012121_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T014146_20201127T014216_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T022623_20201127T024653_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T024700_20201127T024709_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T024713_20201127T025201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T025235_20201127T025246_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T025248_20201127T025341_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T025537_20201127T025630_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T025720_20201127T025854_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T030044_20201127T030139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T035616_20201127T040133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T041228_20201127T041234_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T041241_20201127T041344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T041348_20201127T042024_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T042059_20201127T042353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T042905_20201127T043042_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T043525_20201127T043539_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T055726_20201127T060343_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T060351_20201127T060432_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T060518_20201127T061000_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T063158_20201127T063236_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T063238_20201127T070712_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081018_20201127T081111_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081116_20201127T081122_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081125_20201127T081146_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081149_20201127T081158_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081201_20201127T081208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081210_20201127T081227_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081232_20201127T081322_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081324_20201127T081325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081330_20201127T081333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081335_20201127T081534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081537_20201127T081544_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081546_20201127T081549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T081551_20201127T081554_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20201127T081557_20201127T081559_D001	Loss of echo	The tracking echo is missing for one or more records
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Company   Comp			
Company   Comp			
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CS_OFFL_SR_LIML_18_2003112711932_200012711330_D001  CS_OFFL_SR_LIML_18_200312711930_200012711330_D001  CS_OFFL_SR_LIML_18_2003127119391_200012711330_D001  CS_OFFL_SR_LIML_18_2003127119391_200012711330_D001  CS_OFFL_SR_LIML_18_2003127119391_200012711330_D001  CS_OFFL_SR_LIML_18_2003127110391_200012711330_D001  CS_OFFL_SR_LIML_18_200312711030_200012711330_D001  CS_OFFL_SR_LIML_18_200312711030_200012711330_D001  CS_OFFL_SR_LIML_18_200312711030_200012711330_D001  CS_OFFL_SR_LIML_18_200312711030_200012711330_D001  CS_OFFL_SR_LIML_18_200312711300_200012711330_D001  CS_OFFL_SR_LIML_18_20031271300_20001271330_D001  CS_OFFL_SR_LIML_18_20031271300_20001271340_D001  CS_OFFL_SR_LIML_18_200312713400_D001  CS_OFFL_SR_LIML_18_200312713400_D001  CS_OFFL_SR_LIML_18_200312713400_D001  CS_OFFL_SR_LIML_18_200312714450_D001  CS_OFFL_SR_LIML_18_200312714450_D001  CS_OFFL_SR_LIML_18_200312714450_D001  CS_OFFL_SR_LIML_18_200312714450_D001  CS_OFFL_SR_LIML_18_200312714450_D001  CS_OFFL_SR_LIML_18_200312714450_D001  CS_OFFL_SR_LIML_18_200312714560_D001  CS_OFFL_SR_LIML_18_200312714650_D001  CS_OFFL_SR_LIML_18_200312714650_D00112716000_D001  CS_OFFL_SR_LIML_18_200312714650_D00112716000_D001  CS_OFFL_SR_LIML_18_200312714660_D00112716000_D001  CS_OFFL_SR_LIML_18_200312714			·
CS_OFFL_SRL_IRM_IR_20001127T11364_20001127T11364_0001  CS_OFFL_SRL_IRM_IR_20001127T11364_20001127T113610_0001  CS_OFFL_SRL_IRM_IR_20001127T113610_20001127T127620_0001  CS_OFFL_SRL_IRM_IR_20001127T113610_20001127T127620_0001  CS_OFFL_SRL_IRM_IR_20001127T127620_20001127T127620_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T127620_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T136100_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T136100_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T136100_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T136100_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T136102_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T13600_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T13600_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T13600_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T13600_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T13600_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T13600_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T136500_0001  CS_OFFL_SRL_IRM_IR_20001127T136500_0001127T136500_0001  CS_			
CS_OFFL_SR_LRN_18_20001127711459_200112771459_001  CS_OFFL_SR_LRN_18_20001127715920_2001127712469_001  CS_OFFL_SR_LRN_18_20001127715920_2001127712469_001  CS_OFFL_SR_LRN_18_20001127715920_2001127712469_001  CS_OFFL_SR_LRN_18_20001127715920_2001127712469_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715900_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715900_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715900_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715900_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715900_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715950_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715950_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715950_001  CS_OFFL_SR_LRN_18_20001127715920_2001127715950_001  CS_OFFL_SR_LRN_18_20001127716950_2001127716950_001  CS_OFFL_SR_LRN_18_2			
CS_OFF_SR_LRM_18_20201127T14411_20201127T14212_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14223_2001127T14220_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14223_2001127T14300_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14302_2001127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14302_2001127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14302_2001127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14302_2001127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14408_20201127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14408_20201127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14408_2001127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14408_2001127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14303_D00101  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14303_D00101  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14303_D0010127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14303_D0010127T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14303_D001027T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127T14303_D001027T14303_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFF_SR_LRM_18_20201127			
CS_OFF_SR_LRM_18_20201127T12013_20201127T121216_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T12020_20201127T13100_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T1300_20201127T13100_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T13137T3_20201127T131310_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T1300_20201127T13033_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T1300_20201127T13033_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T1400_20201127T140053_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T140053_D001127T140058_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T140053_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T140053_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T140058_20201127T140001_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_20201127T140001_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_20201127T15033_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_20201127T15033_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_20201127T14000_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_202010001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_20201127T14000_D001 Lose of echo The tracking acho is missing for one or more records OS_OFF_SR_LRM_18_20201127T14000_20201127T14000_D001 Lose of echo The trac			
CS_OFF_SR_LRM_18_202011277124726_20201277134730_0001			
CS_OFFL_SR_LRM_IB_20201127114726_0201127113107_0001  CS_OFFL_SR_LRM_IB_2020112713102_202011271313_0001  CS_OFFL_SR_LRM_IB_20201127131304_202011271333_0001  CS_OFFL_SR_LRM_IB_20201127131304_202011271333_0001  CS_OFFL_SR_LRM_IB_20201127131304_2020_202011271333_0001  CS_OFFL_SR_LRM_IB_2020112713030_202011271333_0001  CS_OFFL_SR_LRM_IB_2020112713430_2020_202011271333_0001  CS_OFFL_SR_LRM_IB_2020112713430_2020_2020112713433_0001  CS_OFFL_SR_LRM_IB_2020112714650_2020_2020112714550_0001  CS_OFFL_SR_LRM_IB_2020112714650_2020_2020112714550_0001  CS_OFFL_SR_LRM_IB_2020112714650_2020_2020_1000_0000000000000000000000			
CS_OFF_SIR_LRM_18_20201127T130F2_20201127T13107_D001  CS_OFF_SIR_LRM_18_20201127T131027_20201127T13153_D001  CS_OFF_SIR_LRM_18_20201127T135208_20201127T13535_D001  CS_OFF_SIR_LRM_18_20201127T145208_20201127T14535_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T14535_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14508_20201127T145540_D001  CS_OFF_SIR_LRM_18_20201127T14500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T14500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T14500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T14500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T1500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T1500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T1500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15550_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T15500_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T17530_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T17530_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T17530_D001  CS_OFF_SIR_LRM_18_20201127T15500_20201127T175300_D001  CS_OFF_SIR_LRM_18_20201127T175500_20201127T175540_D001  CS_OFF_SIR_LRM_18_20201127T175500_20201127T175540_D001  CS_OFF_SIR_LRM_18_20201127T175500_20201127T175540_D001  CS_OFF_SIR_LRM_18_20201127T175500_20201127T175540_D001  CS_OFF_SIR_LRM_18_20201127T175500_20201127T175540_D001  CS_OFF_SIR_LRM_18_20201127T175500_20201127T175540_D001  CS_OFF_SIR_LRM_18_20201127T			
CS_OFFL_SR_LRM_18_20201127T15809_20201127T154031_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T15809_20201127T15355_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T146418_20201127T146218_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T146249_20201127T146240_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T145601_20201127T14640_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T145601_20201127T14640_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T145600_20201127T14640_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T16500_20201127T164580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T16500_20201127T16450_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T16500_20201127T16503_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T16308_20201127T16323_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T16331_20201127T16333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T16331_20201127T16333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T176303_20201127T16333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T176303_20201127T16333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T176303_20201127T176303_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20201127T176303_20201127T175301_D001  Loss of echo The tracking echo is missing			·
CS_OFFL_SIR_LRM_18_20020127713504_200201277153535_0001			
CS_OFFL_SIR_LEM_18_20201127T149512_820201127T149513_50001			
CS_OFFL_SIR_LRM_IB_20201127T145216_20201127T145216_20001  CS_OFFL_SIR_LRM_IB_20201127T145286_20201127T145355_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T145565_20201127T145585_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T145565_20201127T145585_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T145666_20201127T150565_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T150565_20201127T150565_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T150565_20201127T153530_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T150565_20201127T153230_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T150565_20201127T153200_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T16057_2001127T163300_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T164017_2001127T164030_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175310_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175320_20201127T175311_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175320_20201127T175311_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175320_20201127T175314_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175320_20201127T175314_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T19324_20201127T193335_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_			
CS_OFFL_SIR_LRM_18_20201127T145349_20201127T146549_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T145552_20201127T146549_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T145002_20201127T146549_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T159025_20201127T159551_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T159025_20201127T159351_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T159025_20201127T159359_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T159025_20201127T159330_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T163315_20201127T163320_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T163357_20201127T163320_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T163357_20201127T163350_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T1703057_20201127T1703040_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T171620_20201127T175311_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T175320_20201127T175311_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T175340_20201127T175407_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T175340_20201127T175407_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T175321_20201127T175323_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20201127T193212_20201127T			
CS_OFFSIR_LRM_18_20201127T145532_20201127T145540_0001  CS_OFFSIR_LRM_18_20201127T145508_20001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T145508_20001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T150608_20201127T150551_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T150502_20201127T153250_10001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T153533_20001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T153533_20001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T153533_20001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T1630318_20201127T16330_10001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T16307_20201127T16300_10001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T16007_20201127T16300_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T17620_20201127T17531_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T17532_20201127T17531_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T17532_20201127T17531_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T175340_20201127T175407_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T193340_20201127T19335_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T19332_0201127T19333_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_18_20201127T19332_0201127T193330_0001  Loss of exho  The tr			
CS_OFFL_SIR_LRM_18_202011271145505_20201127115051_D001			·
CS_OFFL_SIR_LRM_1B_20201127T145800_20201127T15955_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T16205_20201127T153233_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T163255_20201127T153233_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T16318_20201127T163233_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T163313_20201127T163320_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T163333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T164017_20201127T164403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T176020_20201127T164403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T176202_20201127T171310_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T179202_20201127T175311_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175342_20201127T175341_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175342_20201127T175341_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175342_20201127T175407_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175342_20201127T175407_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193312_10001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193312_10001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193321_20201127T193256_D001  Loss of echo The tracking echo is missing for one or m		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20201127T15926_20201127T15323_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16926_20201127T16320_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16320_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16330_20_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16330_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16300_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T17600_20201127T17630_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T17600_20201127T17531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T17620_20201127T17531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T17531_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T17531_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T175346_20201127T17531_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T175346_20201127T175407_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16404_20201127T16402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16404_20201127T16402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16404_20201127T16402_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T16404_20201127T169328_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201127T1693212_D001127T169328_D001 Loss of echo The tracking ech			·
CS_OFFL_SIR_LRM_IB_20201127T15925_20201127T15933_D001  CS_OFFL_SIR_LRM_IB_20201127T163233_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T163233_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T163313_20201127T163323_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T163657_20201127T163834_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T163657_20201127T163834_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T1764017_20201127T176440_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T176312_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T176312_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175312_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175330_20201127T175340_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175346_20201127T175407_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T165808_20201127T159330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T1913321_D001217T193215_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T1913321_D001217T1932132_D0011  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193321_D0011  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193332_D0011  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193332_D0011  Loss of echo  The tracking echo is missing for one or mo			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201127T163266_20201127T163230_D001			
CS_OFFL_SIR_LRM_1B_20201127T163118_20201127T163320_0001  Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T163313_20201127T163320_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T164017_20201127T16403_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T176207_20201127T171310_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T177820_20201127T1773311_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T175315_20201127T175311_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T175315_20201127T175314_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T175346_20201127T175340_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T18600_20201127T175400_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T18500_20201127T1930001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T19330_20201127T193315_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T193321_20201127T193215_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T193212_20201127T193215_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T193321_20201127T193326_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T193321_20201127T193321_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T193321_20201127T193320_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20201127T193332_00011 Loss of echo The tracking echo is missing for one or more r			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T163313_20201127T163320_D001  CS_OFFL_SIR_LRM_1B_20201127T163657_20201127T16403_D001  CS_OFFL_SIR_LRM_1B_20201127T163657_20201127T16403_D001  CS_OFFL_SIR_LRM_1B_20201127T1770620_20201127T1740403_D001  CS_OFFL_SIR_LRM_1B_20201127T1770620_20201127T175311_D001  CS_OFFL_SIR_LRM_1B_20201127T177170620_20201127T175311_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175315_20010127T175311_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175315_2001127T175317_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175305_20201127T175307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175306_20201127T175407_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175406_20201127T175407_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T191604_20201127T194033_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19333_20201127T191433_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19332_20201127T193315_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19332_20201127T193325_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193312_0001127T193326_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193300_20201127T193336_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193311_20201127T193320_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193331_20201127T1933310_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T168657_20201127T168034_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T16820_20201127T175311_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175826_20201127T175311_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175315_20201127T175317_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175346_20201127T175344_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175346_20201127T175440_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T175346_20201127T175407_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T180406_20201127T180205_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T180205_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T191933_20201127T193143_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19332_20201127T19331_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19332_20201127T19332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193330_20201127T19333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19330_20201127T19330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19330_20201127T193330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T19332_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193332_20201127T193332_D001  Loss of echo  T	CS_OFFL_SIR_LRM_1B_20201127T163118_20201127T163201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201127T17620_20201127T17630_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175315_0201127T175315_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175315_0201127T175315_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175302_0201127T175344_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175302_0201127T175344_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175346_20201127T175404_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175346_20201127T175407_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T1793346_20201127T191433_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T191433_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T19331_20201127T193315_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193212_0201127T193215_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193301_0201127T193306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193301_0201127T193306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193301_20201127T193330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T1933302_0201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193332_0201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193332_0201127T193332_D001  Loss of echo  Th	CS_OFFL_SIR_LRM_1B_20201127T163313_20201127T163320_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20201127T17620_20201127T17130_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175315_20201127T175317_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175320_20201127T175344_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T175346_20201127T17544D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T18604_20201127T168025_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T198306_20201127T191433_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T191933_20201127T193115_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T19332_20201127T193115_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T19321_20201127T193115_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T19321_20201127T19328_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T19321_20201127T19328_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193301_20201127T19336_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193320_20201127T193336_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193320_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193332_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20201127T193332_20201127T193332_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	CS_OFFL_SIR_LRM_1B_20201127T163657_20201127T163834_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201127T175320_20201127T175344_D001  CS_OFFL_SIR_LRM_1B_20201127T175346_20201127T175447_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T181604_20201127T193205_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193830_20201127T191333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193132_20201127T193115_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193121_20201127T193215_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193219_20201127T193238_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193242_20201127T193256_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193301_20201127T193316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193311_20201127T193316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193320_20201127T193329_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193332_0201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_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 tra			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201127T193212_20201127T193238_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193242_20201127T193256_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193242_20201127T193306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193301_20201127T193306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193311_20201127T193316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193320_20201127T193321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193326_20201127T193329_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193332_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T200548_20201127T201931_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_20201127T200548_20201127T201931_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_20201127T200548_20201127T205204_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201127T185808_20201127T191433_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201127T193242_20201127T193256_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193301_20201127T193316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193311_20201127T193316_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193320_20201127T193321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193326_20201127T193329_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193332_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_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_20201127T200548_20201127T201931_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_20201127T200548_20201127T205204_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_20201127T193121_20201127T193215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T193301_20201127T193306_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193311_20201127T193321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193320_20201127T193321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193326_20201127T193329_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193332_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_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	CS_OFFL_SIR_LRM_1B_20201127T193219_20201127T193238_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201127T193320_20201127T193321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193322_20201127T193322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193332_20201127T193332_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T200548_20201127T201931_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	CS_OFFL_SIR_LRM_1B_20201127T193301_20201127T193306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T193326_20201127T193329_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201127T193311_20201127T193316_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T200548_20201127T201931_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T203655_20201127T205204_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_20201127T193326_20201127T193329_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T200548_20201127T201931_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T203655_20201127T205204_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_20201127T193332_20201127T193332_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T200548_20201127T201931_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20201127T203655_20201127T205204_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201127T193335_20201127T193345_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T203655_20201127T205204_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20201127T193347_20201127T193413_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20201127T200548_20201127T201931_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T205406_20201127T210328_D001 Loss of echo The tracking echo is missing for one or more records			
	CS_OFFL_SIR_LRM_1B_20201127T205406_20201127T210328_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20201127T210630_20201127T210759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T210801_20201127T210811_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T210814_20201127T210820_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T210827_20201127T210838_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T210842_20201127T210902_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T210904_20201127T211037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T211040_20201127T211352_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T212450_20201127T214249_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T214852_20201127T214923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T215626_20201127T215643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T223926_20201127T224034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224434_20201127T224540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224542_20201127T224620_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224623_20201127T224649_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224651_20201127T224656_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224702_20201127T224704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224706_20201127T224718_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224720_20201127T224726_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224729_20201127T224730_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224733_20201127T224848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T224851_20201127T225004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T225006_20201127T225333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T230909_20201127T234047_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T234424_20201127T234635_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201127T234654_20201127T235239_D001	Loss of echo	The tracking echo is missing for one or more records
	•	•

#### 4.5 L1B Calibration Usage Check

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

Number of products with errors:

#### 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

### 4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

## 4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20201127T043525_20201127T043539_D001	IEcho error TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

# 5. Level 2 Data Quality Check

## 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 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:

C

### 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:

56

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201127T000711_20201127T003102_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_220201127T004710_20201127T005020_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_220201127T005051_20201127T011248_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_220201127T014146_20201127T014216_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_220201127T014345_20201127T020858_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_220201127T022623_20201127T024653_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_220201127T024713_20201127T025201_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_220201127T030044_20201127T030139_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_220201127T031531_20201127T034859_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_220201127T042905_20201127T043042_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_220201127T045426_20201127T050417_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_220201127T050703_20201127T052825_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_220201127T054559_20201127T055539_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_220201127T055726_20201127T060343_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_220201127T060518_20201127T061000_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_220201127T063238_20201127T070712_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_220201127T072619_20201127T075640_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_220201127T081210_20201127T081227_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201127T081335_20201127T081534_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_220201127T081627_20201127T082936_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_220201127T083141_20201127T084656_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_2_20201127T090341_20201127T091356_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_2_20201127T092014_20201127T093613_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_220201127T095408_20201127T100403_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_220201127T100719_20201127T101002_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_220201127T101142_20201127T102524_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_2_20201127T104114_20201127T111434_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_220201127T113324_20201127T113454_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201127T114312_20201127T120405_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_20201127T122003_20201127T124720_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_20201127T131804_20201127T134331_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_2_20201127T140019_20201127T143308_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_220201127T144609_20201127T144759_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_220201127T145900_20201127T150551_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_220201127T152656_20201127T153233_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20201127T154004_20201127T161223_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_20201127T162522_20201127T162632_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_2_20201127T164504_20201127T170041_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_2_20201127T171826_20201127T175311_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_20201127T181604_20201127T182025_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_220201127T182121_20201127T183859_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_220201127T185808_20201127T191433_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_220201127T191448_20201127T191832_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_220201127T191933_20201127T193115_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_220201127T193121_20201127T193215_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201127T194625_20201127T200439_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_220201127T200548_20201127T201931_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_2_20201127T203655_20201127T205204_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_220201127T205406_20201127T210328_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_220201127T212450_20201127T214249_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_220201127T214852_20201127T214923_D001	Surface Model Unavailable	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_220201127T224702_20201127T224704_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201127T230557_20201127T230745_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_220201127T230909_20201127T234047_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	191	191	191	0	0
SIR_SAR_1B	117	117	117	0	0
SIR_SIN_1B	108	108	108	0	0
SIR_LRM_2	185	185	180	5	0
SIR_SAR_2	108	115	115	0	0
SIR_SIN_2	115	108	106	2	0
SIR GDR 2	14	14	0	0	14

### 6.1 QCC Errors

Number of products with QCC errors:

14

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	•	-	-
SIR_GDR_2_	14	14	14	14	14	14	14	14			
0											

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)				
STRUCTURESIZEANDE	STRUCTURE_SIZE_AND_READ	Under investigation.				

## 6.2 QCC Warnings

Number of QCC reports with warnings

3

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMME000	•	•	
SIR_LRM_2_	0	4	1	1			
SIR SIN 2	2	0	0	0			

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

0