

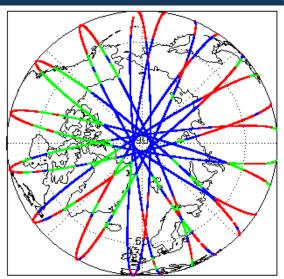
# 1. Overview

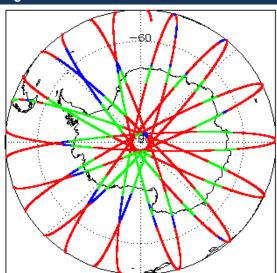
Report Production Date:	13-Apr-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

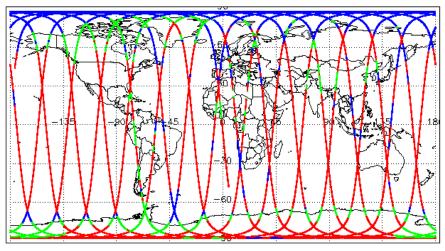
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

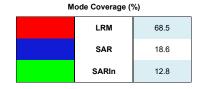
Mission / Instrument News					
11-Mar-2021	None				
12-Mar-2021	None				
13-Mar-2021	Nothing planned				

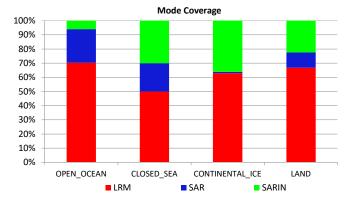
# 2. Global Coverage

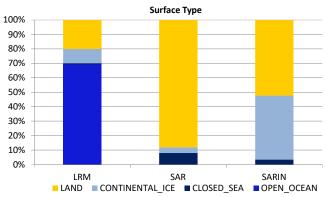












## 3. Instrument Configuration

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:

0

#### 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:

0

## 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.

Number of products with errors: 11

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210311T235402_20210312T001402_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T001729_20210312T002219_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T002249_20210312T002432_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T004341_20210312T004424_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T004603_20210312T011945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T012728_20210312T013123_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T022215_20210312T022338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T022341_20210312T022355_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T022357_20210312T022429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T024128_20210312T024245_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T024247_20210312T024504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T024619_20210312T025913_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T031641_20210312T032947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040115_20210312T040149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040152_20210312T040201_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040205_20210312T040215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040218_20210312T040438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040441_20210312T040442_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040444_20210312T040514_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040517_20210312T040545_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T040548_20210312T040808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T041123_20210312T042149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T042328_20210312T043829_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T045642_20210312T045812_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T045814_20210312T045830_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T050123_20210312T050555_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T050558_20210312T050601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T051100_20210312T051215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T051218_20210312T051540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T051703_20210312T052412_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T053909_20210312T053930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T054005_20210312T054711_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T054714_20210312T054842_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T055231_20210312T055239_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T055242_20210312T055441_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T062500_20210312T062707_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T063035_20210312T065648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T065651_20210312T065715_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T065719_20210312T065732_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T065734_20210312T070534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T072240_20210312T072717_D001	Loss of echo	The tracking echo is missing for one or more records

Company   Comp	CS_OFFL_SIR_LRM_1B_20210312T073130_20210312T075711_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SR_LRN_16_20210312113242_20210312113320_001  CS_OFFL_SR_LRN_16_20210312113322_2021012113320_001  CS_OFFL_SR_LRN_16_20210312113322_2021012113330_001  CS_OFFL_SR_LRN_16_20210312113322_20210312113330_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113330_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113330_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113330_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113330_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113330_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113320_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_20210312113321_001  CS_OFFL_SR_LRN_16_20210312113321_202103121133201_001  CS_OFFL_SR_LRN_16_20210312113322_202103121133201_001  CS_OFFL_SR_LRN_16_20210312113322_202103121133201_001  CS_OFFL_SR_LRN_16_20210312113320_20210312113320_001  CS_OFFL_SR_LRN_16_20210312113320_2021031113300_001  CS_OFFL_SR_LRN_16_20210312113320			
CS_OFF_SR_LRM_18_20210312T13595_20210312T13022_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_2021031T13637_20210312T14431_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T14637_20210312T14431_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T14637_20210312T14041_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T145943_20210312T15041_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T15043_20210312T152140_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T152143_20210312T152140_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T15243_20210312T15240_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T15243_20210312T15240_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T15243_20210312T15250_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T15243_20210312T15250_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T15250_202100312T16250_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T16303_20210312T16303_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T16303_20210312T16303_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T16303_20210312T16303_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T16303_20210312T16303_D001 Loss of exhalo The tracking exhalo is missing for one or more records CS_OFF_SR_LRM_18_20210312T16303_20210312T16303_D001 Loss of exhalo The tracking exhalo is			· · ·
CS_OFF_SR_LRW_18_20010312715445_2010312713455_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715457_20010312715525_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715643_2010312715525_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715643_2010312715525_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715643_2010312715525_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715649_20103127152540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715240_20103127152540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715240_20103127152540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715240_2010312715250_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715240_2010312715250_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_20010312715240_2010312715250_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_200103127152432_20103127152550_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_OFF_SR_LRW_18_200103127152432_20103127152550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_200103127165432_20103127155550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_200103127165432_20103127155550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_200103127165432_20013127156540_D001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SR_LRW_18_200103127165440_20013127165550_D001 Loss of echo The tracking echo is missing for one or m			
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CS_OFF_SIR_LRM_18_20210312T145937_20210312T145413_D001  CS_OFF_SIR_LRM_18_20210312T15202_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T151919_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T152107_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T152107_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T152107_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T152107_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T152107_20210312T15210_D001  CS_OFF_SIR_LRM_18_20210312T15210_20210312T1520_D001  CS_OFF_SIR_LRM_18_20210312T15210_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15210_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15210_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15200_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15200_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15200_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15200_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15200_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T15200_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T151000_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T151000_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T151000_20210312T15200_D001  CS_OFF_SIR_LRM_18_20210312T151000_20210312T15000_D001  CS_OFF_SIR_LRM_18_20210312T15100_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T15100_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_202100312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T16000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T160000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T160000_20210312T160000_D001  CS_OFF_SIR_LRM_18_20210312T160000_20210312T16000_D001  CS_OFF_SIR_LRM_18_20210312T160000_20210312T160000_D001  CS_OFF_SIR_LRM_18_20210312T160000_20210312T160000_D001  CS_OFF_SIR_LRM_18_20210312T160000_20210312T160000_D001  CS_OFF_SIR_LRM_18_20210312			
CS_OFF_SIR_LRM_18_20210312716432_20210312716325_D001  CS_OFF_SIR_LRM_18_20210312716143_20210312716325_D001  CS_OFF_SIR_LRM_18_202103127162107_20210312716210_D001  CS_OFF_SIR_LRM_18_202103127162107_20210312716210_D001  CS_OFF_SIR_LRM_18_202103127162143_20210312716210_D001  CS_OFF_SIR_LRM_18_202103127162143_20210312716210_D001  CS_OFF_SIR_LRM_18_202103127162143_20210312716210_D001  CS_OFF_SIR_LRM_18_202103127162163_20210312716210_D001  CS_OFF_SIR_LRM_18_202103127162163_20210312716200_D001  CS_OFF_SIR_LRM_18_20210312716200_20210312716200_D001  CS_OFF_SIR_LRM_18_20210312716200_20210312716200_D001  CS_OFF_SIR_LRM_18_20210312716200_20210312716300_D001  CS_OFF_SIR_LRM_18_20210312716200_20210312716300_D001  CS_OFF_SIR_LRM_18_20210312716200_20210312716300_D001  CS_OFF_SIR_LRM_18_20210312716005_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716005_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716005_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716005_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716005_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716000_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716300_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716300_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716300_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716300_D001  CS_OFF_SIR_LRM_18_202103127160000_202103127163000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_20210312716000_20210312716000_D001  CS_OFF_SIR_LRM_18_202103127176000_202103127160000_D001  CS_OFF_SIR_LRM_18_202103127176000_20210312716000_D001  CS_OFF_SIR_LRM_18_202103127176000_202103127160000_D001  CS_OFF_SIR_LRM_18_202103127176000_202103127176000_D001  CS_OFF_SIR_LRM_18_202103127176000_202103127176000_D001  CS_OFF_SIR_LRM_18_202103			
CS_OFFL_SR_LRM_18_20210312T150443_20210312T151250_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T152143_20210312T152150_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T152143_20210312T152150_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T152143_20210312T152357_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T152403_20210312T152539_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T152403_20210312T152539_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T152403_20210312T152539_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T15203578_20210312T152539_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T162005_20210312T161580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T162005_20210312T161580_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T16216240_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T16216340_20210312T160340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T160340_20210312T160340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T160340_20210312T160340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T160340_20210312T160340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T160340_20210312T160360_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_18_20210312T1703600_20210312T170300_D001  Loss of echo The tracking echo			
CS_OFFL_SIR_LRM_18_20210312T152192_20210312T152150_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152159_20210312T15255_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152159_20210312T152357_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152359_20210312T152350_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152359_20210312T15230_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152359_20210312T15230_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152752_00210312T162349_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T163769_20210312T160349_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T163769_20210312T160349_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T164403_20210312T160349_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T164403_20210312T160349_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T163403_20210312T169340_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T163540_20210312T169340_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T1763540_20210312T169330_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T1693640_20210312T169390_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T1693640_20210312T169390_0001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T169353_20210312T16			
CS_OFFL_SIR_LRM_18_20210312T152107_20210312T152140_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152143_20210312T152450_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152403_20210312T152530_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152403_20210312T152530_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T152403_20210312T152530_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T16231_20210312T152530_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T16403_20210312T16403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T16403_20210312T16403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T16403_20210312T16403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T16403_20210312T166403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T166403_20210312T166403_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T16640_20210312T166930_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T169804_20210312T169930_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T179003_20210312T169930_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T179003_20210312T179390_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T179301_20210312T179340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T179301_20210312T179340_D001  Loss of echo T			
CS_OFFSIR_LRM_IB20210312T152159_20210312T152357_D001  CS_OFFSIR_LRM_IB20210312T152159_20210312T152357_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T15259_20210312T152535_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T152332_20210312T155453_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T15633_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T156352_D001312T155549_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T160549_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T160549_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T1654402010312T169540_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T165540_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T165540_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T165540_D0010  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T165540_D0010  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T165550_D0010  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T165550_D0010  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T175032_D0011  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T175032_D0011  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T175032_D0011  Loss of exho  The tracking exho is missing for one or more records  CS_OFFSIR_LRM_IB20210312T16317			
CS_OFFL_SIR_LRM_18_20210312T15259_20210312T152400_D001  CS_OFFL_SIR_LRM_18_20210312T152592_20210312T152400_D001  CS_OFFL_SIR_LRM_18_20210312T152592_20210312T152400_D001  CS_OFFL_SIR_LRM_18_20210312T152592_20210312T152593_D001  CS_OFFL_SIR_LRM_18_20210312T155708_20210312T155949_D001  CS_OFFL_SIR_LRM_18_20210312T155708_20210312T155949_D001  CS_OFFL_SIR_LRM_18_20210312T160055_20210312T16159_D001  CS_OFFL_SIR_LRM_18_20210312T160055_20210312T160159_D001  CS_OFFL_SIR_LRM_18_20210312T160055_20210312T160159_D001  CS_OFFL_SIR_LRM_18_20210312T160052_20210312T160059_D001  CS_OFFL_SIR_LRM_18_20210312T160050_20210312T160050_D001  CS_OFFL_SIR_LRM_18_20210312T1700050_20210312T160050_D001  CS_OFFL_SIR_LRM_18_20210312T1700050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T1700050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T1700050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T1700050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T100050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T100050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T100050_D001  CS_OFFL_SIR_LRM_18_20210312T170050_20210312T100050_D001  CS_OFFL_SIR_LRM_18_20210312T100050_20210312T100050_D001  CS_OFFL_SIR_LRM_18_20210312T100050_20210312T100050_D001  CS_OFFL_SIR_LRM_18_20210312T100050_202103			
CS_OFFL_SIR_LRM_18_20210312T152403_20210312T15240_D001  CS_OFFL_SIR_LRM_18_20210312T152403_20210312T152545_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T15203_20210312T155455_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T160055_20210312T165455_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T160055_20210312T160001  CS_OFFL_SIR_LRM_18_20210312T161816_2001  CS_OFFL_SIR_LRM_18_20210312T161816_2001  CS_OFFL_SIR_LRM_18_20210312T161816_2001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T161816_2001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165440_2001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165644_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165644_D00132T165696_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165694_D001210312T165690_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T1765694_D00132T1765690_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T170032_20210312T1765690_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T172059_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T172695_20210312T173090_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T172695_20210312T173090_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T176050_20210312T180501_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T180501_20210312T180501_D001  Loss			
CS_OFFL_SIR_LRM_18_202103127156240_202103127156549_D001  CS_OFFL_SIR_LRM_18_202103127156708_202103127156549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127156708_202103127156549_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127166905_202103127165419_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127166905_202103127166904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127166905_202103127166904_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127166904_202103127166908_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127166908_202103127166908_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127166908_202103127169908_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127169908_202103127169908_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127169908_202103127169908_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127179003_202103127179009_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127179003_202103127179009_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127179003_202103127179048_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127179052_202103127179048_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202103127179052_20210312718048_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_2021031271801001_20210312718048_D001  Loss of echo  The tracking echo is missing for one or more			
CS_OFFL_SIR_LRM_18_20210312T15538_20210312T155435_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T161816_20210312T16195_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T161816_20210312T16195_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T164843_20210312T164703_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165403_20210312T16594_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165937_20210312T165930_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165937_20210312T165930_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165937_20210312T1659500_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T165937_20210312T165950_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T176593_20210312T176590_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T175050_20210312T1750590_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T172052_20210312T173200_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T173205_20210312T173200_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T17505_20210312T175348_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T17505_20210312T175340_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T17505_20210312T180333_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210312T180530_20210312T180530_D001  Loss of ec		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T156055_20210312T165949_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T161816_20210312T165040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T16403_20210312T165040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T165040_20210312T165040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T165040_20210312T165040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T165040_20210312T165040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T165040_20210312T1650500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T1705040_20210312T1650500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T170003_20210312T1650500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T170003_20210312T170500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T1712005_20210312T170500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T172005_20210312T170500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T173205_20210312T170500_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T170005_20210312T170005_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T170050_2010312T180313_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T170050_2010312T180330_001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210312T180501_20210312T180505_0001 Loss of echo The tracking echo is mis			
CS_OFFL_SIR_LRM_18_20210312T16916_20210312T169149_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T16914_20210312T169049_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T16911_20210312T169044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T16911_20210312T169908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T169937_20210312T169908_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T169937_20210312T169938_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T169996_20210312T169599_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T170003_20210312T170539_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T170003_20210312T170309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T172905_20210312T172800_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T173295_20210312T173209_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T173201_20210312T173309_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T175601_20210312T180303_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T180532_20210312T180333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T180534_20210312T180333_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T180544_20210312T180530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210312T180544_20210312T180540_D001 Loss of echo The tracking echo is missing			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210312T165946_20210312T16593R_D001	CS_OFFL_SIR_LRM_1B_20210312T164403_20210312T164703_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T165937_20210312T165950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T165950_20210312T165950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T170032_20210312T172590_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T172502_20210312T172502_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T172502_20210312T172300_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T172502_20210312T17334B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T173211_20210312T17334B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T17354B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T18303_2010312T183103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T18303_2010312T183133_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183131_02010312T18333_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T18331_20210312T18352T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183541_20210312T185534_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T19554_20210312T190545_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190572_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190572_20210312T201212_D001  Loss of echo	CS_OFFL_SIR_LRM_1B_20210312T165111_20210312T165844_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210312T165940_20210312T165950_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T170003_20210312T170539_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T172052_20210312T17202D_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T173205_20210312T17309_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T173211_20210312T17534B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T175601_20210312T163043_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T180653_20210312T183103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18310_20210312T18313_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18310_20210312T18313_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18331_D0210312T18310_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18310_D010312T183001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18301_D010312T185030_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18504_D010312T185639_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T18504_D01312T180550_D010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T19057_20210312T19054_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T19057_20210312T190550_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210312T19057_20210312T190595_D001  Loss of echo		Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210312T172925_20210312T175348_D001  CS_OFFL_SIR_LRM_1B_20210312T175601_20210312T180453_D001  CS_OFFL_SIR_LRM_1B_20210312T175601_20210312T180453_D001  CS_OFFL_SIR_LRM_1B_20210312T180653_20210312T183103_D001  CS_OFFL_SIR_LRM_1B_20210312T180653_20210312T183103_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183110_20210312T183133_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183131_20210312T183133_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or			
CS_OFFL_SIR_LRM_1B_20210312T175211_20210312T180453_D001  CS_OFFL_SIR_LRM_1B_20210312T180653_20210312T180453_D001  CS_OFFL_SIR_LRM_1B_20210312T180653_20210312T183103_D001  CS_OFFL_SIR_LRM_1B_20210312T183110_20210312T183133_D001  CS_OFFL_SIR_LRM_1B_20210312T183431_20210312T183133_D001  CS_OFFL_SIR_LRM_1B_20210312T183431_20210312T18352T_D001  CS_OFFL_SIR_LRM_1B_20210312T183431_20210312T184045_D001  CS_OFFL_SIR_LRM_1B_20210312T18504_20210312T184045_D001  CS_OFFL_SIR_LRM_1B_20210312T18504_20210312T18504_D001  CS_OFFL_SIR_LRM_1B_20210312T18504_20210312T190544_D001  CS_OFFL_SIR_LRM_1B_20210312T18501_20210312T190545_D001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19051001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190542_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190542_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T19001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T10919_D001  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T2012121_D001  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T2012121_D001  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T2012121_D001  CS_OFFL_SIR_LRM_1B_20210312T20123448_20210312T2012121_D001  CS_OFFL_SIR_LRM_1B_20210312T20121201201201  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_20210312T201312T00101  CS_OFFL_SIR_LRM_1B_00010312T2010312T001012010101  CS_OFFL_SIR_LRM_1B_00010312T0010312T20100101  CS_OFFL_SIR_LRM_1B_00010312T			
CS_OFFL_SIR_LRM_1B_20210312T180653_20210312T180653_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183110_20210312T183133_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183110_20210312T18352T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183431_20210312T18352T_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T183701_20210312T184045_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T185544_20210312T185639_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T185801_20210312T190544_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190544_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190544_20210312T190719_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201231_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_20210312T201235_20210312T201212_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 mor	CS_OFFL_SIR_LRM_1B_20210312T172925_20210312T173209_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210312T183701_20210312T184045_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T185644_20210312T190544_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190719_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190724_20210312T193307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_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_20210312T201920_20210312T202121_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_20210312T201920_20210312T20121D001  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_20210312T212448_20210312T204057_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210312T183110_20210312T183133_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T185544_20210312T185639_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190719_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190724_20210312T193307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T20121_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_20210312T201920_20210312T202121_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_20210312T212448_20210312T204057_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210312T183431_20210312T183527_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T185801_20210312T190544_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190719_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190724_20210312T193307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T20121_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_20210312T183701_20210312T184045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T190547_20210312T190555_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190719_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T190724_20210312T193307_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T20121_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T20121_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  CS_OFFL_SIR_LRM_1B_20210312T212448_20210312T214057_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210312T185544_20210312T185639_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190719_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T202121_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	CS_OFFL_SIR_LRM_1B_20210312T185801_20210312T190544_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210312T194542_20210312T201231_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T201211_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_20210312T212448_20210312T214057_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210312T190557_20210312T190719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T202121_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210312T212448_20210312T214057_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_20210312T190724_20210312T193307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T202121_D001 Loss of echo  CS_OFFL_SIR_LRM_1B_20210312T212448_20210312T214057_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_20210312T194542_20210312T201231_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T212448_20210312T214057_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210312T201235_20210312T201919_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210312T201920_20210312T202121_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T214100_20210312T215011_D001 Loss of echo The tracking echo is missing for one or more records			
	CS_OFFL_SIR_LRM_1B_20210312T214100_20210312T215011_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210312T215014_20210312T215119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T215300_20210312T215406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T215545_20210312T215648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T220120_20210312T220156_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T231838_20210312T232257_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T232321_20210312T232746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T232930_20210312T233213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210312T233454_20210312T233613_D001	Loss of echo	The tracking echo is missing for one or more records

#### 4.5 L1B Calibration Usage Check

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

0

Number of products with errors:

#### 4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 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).

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:

## 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220210311T235402_20210312T001402_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_220210312T001729_20210312T002219_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_220210312T002249_20210312T002432_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_220210312T004341_20210312T004424_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_220210312T004603_20210312T011945_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_220210312T013324_20210312T020938_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_220210312T022926_20210312T023646_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_220210312T024128_20210312T024245_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_220210312T024247_20210312T024504_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_220210312T024619_20210312T025913_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_220210312T031641_20210312T032947_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_220210312T033201_20210312T034359_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_20210312T041123_20210312T042149_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_220210312T042328_20210312T043829_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_20210312T050123_20210312T050555_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_20210312T051218_20210312T051540_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_220210312T051703_20210312T052412_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_220210312T054005_20210312T054711_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210312T055550_20210312T061733_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_220210312T063035_20210312T065648_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_220210312T073130_20210312T075711_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_220210312T080940_20210312T084320_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_220210312T090831_20210312T091531_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_20210312T091533_20210312T092747_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_220210312T093019_20210312T093655_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_220210312T094912_20210312T102347_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210312T103706_20210312T103807_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_20210312T110651_20210312T111625_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_220210312T112842_20210312T115133_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_220210312T115419_20210312T120343_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_220210312T122507_20210312T122647_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

ONLY BY UNITY 2010/01/17/24/1 2010/01/17/24/1 2010/01/17/24/2 2010/01/17/24/1 2010/01/17/24/2	CS_OFFL_SIR_LRM_220210312T123428_20210312T124026_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Early Report Co., OFFL SRIP, URL 2., 2001-2017 1992 (2012) 1792-2010 (2012) 1992 (1992) 19	CS_OFFL_SIR_LRM_220210312T124214_20210312T125532_D001		
COUNT_SIT_URG_2_20010121110000_201010110000_0010  COUNT_SIT_URG_2_2001012110000_2010101100041 [001]  COUNT_SIT_URG_2_2001012110000_2010101100041 [001]  COUNT_SIT_URG_2_2001012110000_2010101100041 [001]  COUNT_SIT_URG_2_2001012110000_2010101100041 [001]  COUNT_SIT_URG_2_2001012110000_2010101100041 [001]  COUNT_SIT_URG_2_2001012110000_2010101100041 [001]  COUNT_SIT_URG_2_2001012110000_201010110000_2010101100000000	CS_OFFL_SIR_LRM_220210312T130817_20210312T133539_D001		*
CB_OPPL_BIR_URLS2010312110400_00101	CS_OFFL_SIR_LRM_220210312T133718_20210312T134022_D001		
CB_OFFL_BIR_LENA_2_2001031716356_2010317176356_2001  CB_OFFL_BIR_LENA_2_2001031716356_201031716356_2001  CB_OFFL_BIR_LENA_2_2001031716356_201031716356_2001  CB_OFFL_BIR_LENA_2_2001031716356_201031716356_2001  CB_OFFL_BIR_LENA_2_2001031716356_201031716356_2001  CB_OFFL_BIR_LENA_2_2001031716356_201031716356_2001  CB_OFFL_BIR_LENA_2_2001031716356_2010317176356_2001  CB_OFFL_BIR_LENA_2_2001031716356_2010317176356_2001  CB_OFFL_BIR_LENA_2_2001031716356_2010317776356_2001  CB_OFFL_BIR_LENA_2_2001031717636_20010317776356_2001  CB_OFFL_BIR_LENA_2_2001031717636_20010317776356_20010317776356_2001031776356_20010	CS_OFFL_SIR_LRM_220210312T140538_20210312T143000_D001	(Retracker 3), Backscatter Error	
CR_DPFI_BIR_LPM_2_20010312T16523_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16523_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16523_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16523_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16523_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16523_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16533_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16533_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16533_10010312T16523_0001  Tell_CPFI_BIR_LPM_2_20010312T16533_10010312T177500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T175202_00010312T17500_0001  Tell_CPFI_BIR_LPM_2_20010312T10503_00010312T10500_0001  Tell_CPFI_BIR_LPM_2_20010312T10500_00010312T10500_0001  Tell_CPFI_BIR_LPM_2_200	CS_OFFL_SIR_LRM_220210312T145329_20210312T150441_D001		
Empty Force (Relatacies 2)  Septy Force (Relatacies 2)  Septy Force (Relatacies 2)  Relation of Relatacies 2 and a height and backcoalier error for Relatacies 2 for one or more exceeds  Relation of Relatacies 2)  Relation of Relatacies 2 and a height and backcoalier error for Relatacies 2 for one or more exceeds  Relation of Relatacies 2 and a height and backcoalier error for Relatacies 2 for one or more exceeds  Relation of Relatacies 2 and a height and backcoalier error for Relatacies 2 for one or more exceeds  Relation of Relatacies 2 and a height error (Relatacies 2)  Relation of Relatacies 2 and a height error (Relatacies 2)  Relation of Relatacies 2 and a height error (Relatacies 2)  Relation of Relatacies 2 and a height error (Relatacies 2)  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of Relatacies 3 and a service error for Relatacies 2 for one or more exceeds  Relation of	CS_OFFL_SIR_LRM_220210312T150443_20210312T151523_D001	(Retracker 3), Backscatter Error	
Express process  CS_OFFL_SIR_LENU_2_202103127162799_20210312717207_0001  Surface Model Unavailable  No DEM or Stope Model was used for the bootstor of one or more records  CS_OFFL_SIR_LENU_2_202103127172027_20210312717200_0001  Surface Model Unavailable  No DEM or Stope Model was used for the bootstor of one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 and a height error (Retracter 2), Backscatter CS_OFFL_SIR_LENU_2_202103127172035_2001001  CS_OFFL_SIR_LENU_2_202103127180255_202103127160100_2001  Palpit Error (Retracter 2), Backscatter Error (Retracter 2) and a height error (Retracter 2). Backscatter Error (Retracter 2) and a height error (Retracter 2). Backscatter	CS_OFFL_SIR_LRM_220210312T154231_20210312T155435_D001	, ,	
Error (Retracker 2)  Fired (Re	CS_OFFL_SIR_LRM_220210312T160055_20210312T161159_D001		
Envi (Retracter 2)  Surface Model Unavailable  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error (Retracter 2) for Retracter 2 for one or more records  There is a height and backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 and a feligible error (Retracter 2). Backscatter error for Retracter 2 for one or more records.  CS_OFFL_SIR_LEM_2_202103127180724_202103127180303	CS_OFFL_SIR_LRM_220210312T162719_20210312T164223_D001		•
CS_OFFL_SIR_LRM_2_202103127172825_202103127172802_D001  Height Error (Retracker 2), Backscatter Err	CS_OFFL_SIR_LRM_220210312T164403_20210312T164703_D001		
Error (Refracker 2) records  CS_OFFL_SIR_LRM_2_20210312T172925_20210312T175309_D001  Error (Refracker 2) Backscatter Error (Re	CS_OFFL_SIR_LRM_220210312T171800_20210312T171907_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Error (Retracker 2)  Height Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 3)  Height Error (Retracker 2)  Error (Retracker 3)  Error (Retracker 3)  Error (Retracker 3)  Error (Retracker 3)  Error (Retracker 2)  Error (Retracker	CS_OFFL_SIR_LRM_220210312T172052_20210312T172802_D001		
GS_OFFL_SIR_LRM_2_20210312T192152_20210312T19300_D001  CS_OFFL_SIR_LRM_2_20210312T180653_20210312T183103_D001  Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retrack	CS_OFFL_SIR_LRM_220210312T172925_20210312T173209_D001		
Error (Retracker 2) tecords  CS_OFFL_SIR_LRM_2_20210312T190724_20210312T193307_D001  Height Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T194542_20210312T201231_D001  CS_OFFL_SIR_LRM_2_20210312T194542_20210312T201231_D001  CS_OFFL_SIR_LRM_2_20210312T203845_20210312T211208_D001  Height Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T212448_20210312T2114057_D001  CS_OFFL_SIR_LRM_2_20210312T212448_20210312T214057_D001  CS_OFFL_SIR_LRM_2_20210312T215014_20210312T215119_D001  Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T215014_20210312T215119_D001  Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T21500_20210312T215406_D001  Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T21500_20210312T215406_D001  Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T21500_20210312T225110_D001  Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T221601_20210312T225110_D001  Error (Retracker 2). Backscatter error for Retracker 2 on one or more records  CS_OFFL_SIR_LRM_2_20210312T230840_20210312T23050_D001  Height Error (Retracker 2). Backscatter error for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210312T230840_20210312T231235_D001  Error (Retracker 2). Backscatter error for Retracker 2 for one or more records  Error (Retracker 2). Backscatter error for Retracker 2 for one or more records  Error (Retracker 2). Backscatter error for Retracker 2 for one or more records  Error (Retracker 2). Backscatter error for Retracker 2 for one or more records  Error (Retracker 2). Backscatter error for Retracker 2 for one or more records  Error (Retracker 2). Backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220210312T173211_20210312T175348_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2)  Error (Retracker 2)  Error (Retracker 2)  Feodrage From (Retracker 2)  Feodrage From (Retracker 2)  From (Retracker 3)  From (Retracker 2)  From (Retracker 3)  From (Retracker 2)  From (Retracker 3)  From (Retracker 2)  From	CS_OFFL_SIR_LRM_220210312T180653_20210312T183103_D001		•
CS_OFFL_SIR_LRM_2_20210312T194542_20210312T2108_D001  Referacker 3)  Reight Error (Retracker 2)  Reight Error (Retracker 3)  Reight Error (Retracker 3)  Reight Error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Retracker 3 backscatter error for Retracker 2 and a height error (Retracker 3)  Respectively and backscatter error for Retracker 2 for one or more records  Retracker 3 backscatter error for Retracker 2 for one or more records  Retracker 2)  Respectively and backscatter error for Retracker 2 for one or more records  Retracker 2)  Reight Error (Retracker 2)  Reight Error (Retracker 2)  Respectively and backscatter error for Retracker 2 for one or more records  Re	CS_OFFL_SIR_LRM_220210312T190724_20210312T193307_D001		
Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20210312T212448_20210312T214057_D001   Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20210312T215014_20210312T215119_D001   Height Error (Retracker 2), Backscatter Error (Retracker 3) for one or more records  CS_OFFL_SIR_LRM_2_20210312T21500_20210312T215406_D001   Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backsca	CS_OFFL_SIR_LRM_220210312T194542_20210312T201231_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210312T212448_20210312T215119_D001 (Retracker 3), Backscatter Error (Retracker 2) for Retracker 2 for one or more records  CS_OFFL_SIR_LRM_2_20210312T215014_20210312T215119_D001 Height Error (Retracker 2), Backscatter Error (Retracker 2) theight Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatte	CS_OFFL_SIR_LRM_220210312T203945_20210312T211208_D001		
Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Back	CS_OFFL_SIR_LRM_220210312T212448_20210312T214057_D001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20210312T215300_20210312T215406_D001  (Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_2_20210312T215014_20210312T215119_D001		
Error (Retracker 2)  Error (Re	CS_OFFL_SIR_LRM_220210312T215300_20210312T215406_D001	(Retracker 3), Backscatter Error	
Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2)  Error (Retracker 2)  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_220210312T221601_20210312T225110_D001		
CS_OFFL_SIR_LRM_2_20210312T231838_20210312T232257_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records  CS_OFFL_SIR_LRM_2_20210312T232930_20210312T233213_D001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter 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_20210312T2332930_20210312T233213_D001  Height Error (Retracker 2), Backscatter E	CS_OFFL_SIR_LRM_220210312T230332_20210312T230640_D001		
CS_OFFL_SIR_LRM_2_20210312T232930_20210312T233213_D001  Error (Retracker 2) records  Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter records  CS_OFFL_SIR_LRM_2_20210312T232930_20210312T233213_D001  Height Error (Retracker 2), Backscatter records  Height Error (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records	CS_OFFL_SIR_LRM_220210312T230840_20210312T231235_D001		
Error (Retracker 2)  Error (Retracker 2)  From (Retracker 2), Backscatter  From (Retracker 2), Backscatter  From (Retracker 2), Backscatter  From (Retracker 2), Surface model	CS_OFFL_SIR_LRM_220210312T231838_20210312T232257_D001		•
CS_OFFL_SIR_LRM_2_20210312T235553_20210313T000445_D001 Error (Retracker 2), Surface model	CS_OFFL_SIR_LRM_220210312T232930_20210312T233213_D001		
	CS_OFFL_SIR_LRM_220210312T235553_20210313T000445_D001	Error (Retracker 2), Surface model	

# 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	172	172	172	0	0
SIR_SAR_1B	117	117	117	0	0
SIR_SIN_1B	103	103	103	0	0
SIR_LRM_2	172	172	168	4	0
SIR_SAR_2	103	117	117	0	0
SIR_SIN_2	117	103	101	2	0
SIR GDR 2	15	15	0	0	15

## 6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	•	-	•
SIR GDR 2	15	15	15	15	15	15	15	15			

est Description Key:					
Abbreviation	Test name	<b>Details</b>			
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)			
STRUCTURESIZEANDR	STRUCTURE_SIZE_AND_READ	Under investigation.			

# 6.2 QCC Warnings

Number of QCC reports with warnings

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	-	-	-	•
SIR_GDR_2_	0	1					
SIR_LRM_2_	0	4					

Test Description Key:	t 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

Number of products with missing QCC reports:

Product name
CS\_OFFL\_SIR\_GDR\_2\_20210312T232159\_20210313T010113\_D002