

# 27/03/2021



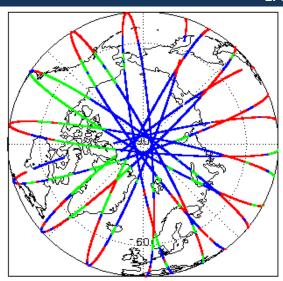
# 1. Overview

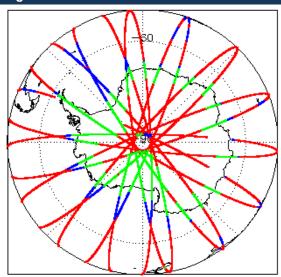
Report Production Date:	27-Apr-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

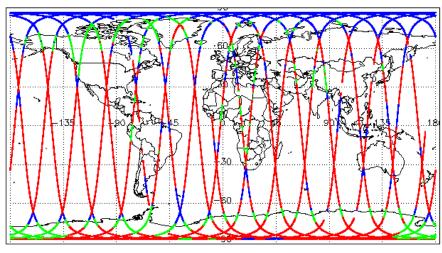
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	See Section 4.5
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

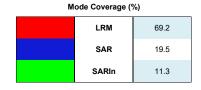
Mission / Instrument News		
26-Mar-2021	None	
27-Mar-2021	Due to a ground segment anomaly, SARIN unavailability on 27/03/2021 from 02:49:54 to 05:20:48	
28-Mar-2021	Nothing planned	

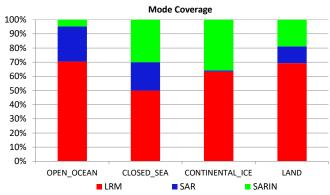
# 2. Global Coverage

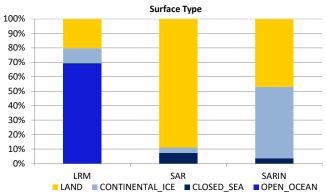












## 3. Instrument Configuration

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:

0

#### 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:

120

Product	Test Failed	Description	
CS_OFFL_SIR_LRM_1B_20210327T002324_20210327T002737_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T011828_20210327T011938_D001	Loss of echo	of echo The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T011941_20210327T011954_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T011958_20210327T011959_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T012002_20210327T012003_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T012005_20210327T012009_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T012012_20210327T012016_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T013734_20210327T013859_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T013902_20210327T014846_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T020236_20210327T020443_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T021331_20210327T022551_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T025742_20210327T025742_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T025749_20210327T025755_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T025759_20210327T025812_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T025816_20210327T025818_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T025820_20210327T025845_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T025849_20210327T030025_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T030028_20210327T030106_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T030109_20210327T030115_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T030118_20210327T030322_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T030724_20210327T031656_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T031858_20210327T032619_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T035516_20210327T035844_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T035848_20210327T035857_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T040720_20210327T040833_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T040838_20210327T040938_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T040940_20210327T041533_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T041703_20210327T042017_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T043624_20210327T044051_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T044055_20210327T044133_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T044137_20210327T044142_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T044153_20210327T044206_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T044208_20210327T044548_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T044556_20210327T044638_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T044900_20210327T044958_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T051609_20210327T052047_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T052109_20210327T052237_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T052631_20210327T060138_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T060301_20210327T060344_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T061904_20210327T062231_D001	Loss of echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_LRM_1B_20210327T062642_20210327T065320_D001	Loss of echo	The tracking echo is missing for one or more records	

Company   Comp	CS_OFFL_SIR_LRM_1B_20210327T070008_20210327T070333_D001	Loss of echo	The tracking echo is missing for one or more records
Computer			
Co.			·
Co. CPT_ST_REST_10_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_2_			
Sec. Col. 100, 100, 100, 100, 100, 100, 100, 100			
Co., Co.			
Company   Comp			
Co. P. 15, R. 16, M. 10, 2001027170002 (201007110000) (2011   Loss of enco.   Interdang plate in sense fire sear more records)			
Compact   Comp			·
Co. CHE, SEL, LIM, 18, 20010027711190, 2010027711900, 2010  CO. CHE, SEL, LIM, 19, 20010027711910, 2010027711900, 2010  CO. CHE, SEL, LIM, 19, 20010027719190, 2010027719100, 2010  CO. CHE, SEL, LIM, 19, 20010027719100, 201002771910, 2010  CO. CHE, SEL, LIM, 19, 20010027719100, 2010027719100, 2010  CO. CHE, SEL, LIM, 19, 20010027719100, 201002771910, 2010  CO. CHE, SEL, LIM, 19, 20010027719100, 201002771910, 2010027191000, 201002719100, 201002719100, 201002719100, 201002719100, 2010			
to, CEFE, SEL, LAM 18, 2001287711910 (2010207711920), 20010007711920, 200100700000000000000000000000000000000			
Comp. Maj. Maj. Maj. 2015277111001_0010207711000_0010010010100100100100100100100100			
Co. OFT.   SR.   LAM. 19. 2010207111201   201020711303   D0101   Loss of exho			
Co., OPT_BRI_MAI_B_2010000000000000000000000000000000000			
Co. CFT.   SR.   LAM   18 20000277119312   2010027711930   DOIS			
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CS_OFF_ER_LIM_18_20030271121745_0201027112016_0201027112016_0201027112016_020102712			
CS. OFT., SR. LIMI. 18, 2018 SET 14481, 2018 S			
GB_OPE_SR_LEN_B_Z01EST154HS_Z0			
CS_OPFL_SR_LEM_R_18_2020027T14902_2010027T14905_001			·
GS_OFFL_SIR_LEM_18_2010027714030_20101027714135_0001			
CS_OFFL_SIR_LRM_18_20010327714935_20104			
CS_OFFL_SR_LRM_18_20210327T14105_20210327T14103_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14105_20210327T14103_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14105_20210327T14103_D001 Loss of exho The tracking exho is missing for one or more records The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14105_20210327T14103_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14105_20210327T14103_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14205_20210327T14205_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14205_20210327T14205_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14205_20210327T14205_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14205_20210327T14205_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14205_20210327T14205_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T14205_20210327T143032_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T140507_20210327T143032_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T140507_20210327T143032_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T140507_20210327T140507_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T140505_20210327T140505_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T140505_20210327T140505_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SR_LRM_18_20210327T160505_20210327T160505_D001 Loss of exho The tracki			
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CS_OFFL_SR_LRM_18_20210327T141801_202210327T141805_D001  CS_OFFL_SR_LRM_18_20210327T141805_20210327T1428D_D001  CS_OFFL_SR_LRM_18_20210327T141936_20210327T1429D_D001  CS_OFFL_SR_LRM_18_20210327T141936_20210327T14203_D001  CS_OFFL_SR_LRM_18_20210327T141936_20210327T14203_D001  CS_OFFL_SR_LRM_18_20210327T141936_20210327T14203_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T14203_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T14203_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T16202_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T16202_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T16202_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T162002_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T162002_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T162002_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T162002_D001  CS_OFFL_SR_LRM_18_20210327T142701_20210327T162002_D001  CS_OFFL_SR_LRM_18_20210327T16213_D001  CS_OFFL_SR_LRM_18_20210327T16213_20210327T16213_D001  CS_OFFL_SR_LRM_18_20210327T16213_20210327T16213_D001  CS_OFFL_SR_LRM_18_20210327T16213_20210327T16213_D001  CS_OFFL_SR_LRM_18_20210327T16213_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T162050_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T162050_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T162050_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T162050_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T162050_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327T16204_20210327T16206_D001  CS_OFFL_SR_LRM_18_20210327			
CS_OFFL_SIR_LRM_1B_202103271141805_20210327114185_D001  CS_OFFL_SIR_LRM_1B_202103271141805_2021032714928_D001  CS_OFFL_SIR_LRM_1B_20210327114205_2021032714203_D001  CS_OFFL_SIR_LRM_1B_20210327114205_20210327149284_D001  CS_OFFL_SIR_LRM_1B_2021032714528_20210327149284_D001  CS_OFFL_SIR_LRM_1B_2021032714528_20210327149284_D001  CS_OFFL_SIR_LRM_1B_20210327145032_2021032714920_D001  CS_OFFL_SIR_LRM_1B_202103271450351_2021032714920_D001  CS_OFFL_SIR_LRM_1B_202103271450351_2021032714920_D001  CS_OFFL_SIR_LRM_1B_20210327145032_2021032714930_D001  CS_OFFL_SIR_LRM_1B_202103271145032_202103271490_D001  CS_OFFL_SIR_LRM_1B_202103271145032_202103271145030_D001  CS_OFFL_SIR_LRM_1B_202103271145032_202103271145030_D001  CS_OFFL_SIR_LRM_1B_202103271154032_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271154032_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271155036_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271155036_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271155036_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271155036_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271155036_202103271155030_D001  CS_OFFL_SIR_LRM_1B_202103271155036_202103271155035_D001  CS_OFFL_SIR_LRM_1B_202103271155037_002005_D001  CS_OFFL_SIR_LRM_1B_202103271155037_002005_D001  CS_OFFL_SIR_LRM_1B_202103271155037_00200710005_D001  CS_OFFL_SIR_LRM_1B_202103271155037_00200710005_D001  CS_OFFL_SIR_LRM_1B_20210327116204_20210327116005_D001  CS_OFFL_SIR_LRM_1B_20210327116204_202103271162040_D001  CS_OFFL_SIR_LRM_1B_20210327116204_202103271163040_D001  CS_			
CS_OFFL_SIR_LRM_18_20210327T14919_20210327T14919_201000000000000000000000000000000000			·
CS_OFFL_SR_LRM_18_20210327T14938_20210327T142015_D001			
CS_OFFL_SR_LRM_1B_20210327T142015_20210327T14203_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T145368_20210327T15090_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T153161_20210327T15090_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T15007_20210327T154109_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T15505_20210327T15501_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T15505_20210327T15501_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T15505_20210327T150517_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T15505_20210327T150510_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T150510_202027T150545_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160102_20210327T160055_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T160055_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T160150_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T16038_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T16038_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T16010001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T16010001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SR_LRM_1B_20210327T160107_20210327T16010_D001  Loss of echo The tracking echo is missing f			
CS_OFFL_SIR_LEM_18_2010327T145056_20210327T155080_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T15515_20210327T156002_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T154131_20210327T155032_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T154131_20210327T155032_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T154133_20210327T155032_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T155050_2010327T155051_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T155050_2010327T155051_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T155050_2010327T155051_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T155053_20210327T160055_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T162032_2010327T160050_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T16232_20210327T162383_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T162342_20210327T162384_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T162342_20210327T162340_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T162342_20210327T162340_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T162342_20210327T162340_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T162340_20210327T162340_D001  Loss of exho  The tracking exho is missing for one or more records  CS_OFFL_SIR_LEM_18_20210327T163232_20210327T173310_D0			
CS_OFFL_SIR_LRM_IB_20210327T145701_20210327T150802_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T154131_20210327T154132_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T154132_D001327T15503_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T154135_D0210327T155503_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T155503_D0010327T155507_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T155503_D0010327T155507_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T155503_D0010327T155507_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T155035_D0010327T155050_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160120_D00327T160050_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160120_D0010327T160010_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160281_D0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160284_D0010327T160284_D0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160284_D0010327T160284_D0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160284_D0010327T160284_D0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160284_D0010327T160284_D0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160281_D0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_20210327T160281_D0010  Loss of echo The tracking echo is missing for one			
CS_OFFL_SIR_LRM_18_20210327T163151_20210327T154007_2010327T154130_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T154007_20210327T155503_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T155505_20210327T155503_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T155505_20210327T155505_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T155505_20210327T155517_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T165055_20210327T160055_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16029_20210327T160055_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162019_20210327T160055_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162019_20210327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162012_20210327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162012_2010327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162012_2010327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162012_2010327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162012_202_2010327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162012_202_2010327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T163016_20210327T163000_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T163016_20210327T173010_D001 Loss			
CS_OFFL_SIR_LRM_18_202103271154019_202103271154139_0001			·
CS_OFFL_SIR_LRM_18_20210327T15505_0210327T155051_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T15505_0210327T155051_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T155051_02010327T15005_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T150551_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16055_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16055_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162302_00210327T162301_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162332_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162332_00210327T162341_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162341_2001327T162341_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162341_201337T162341_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162342_0010327T162341_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162342_0010327T162341_0001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162342_001001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T162342_001001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T163012_001327T163012_0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T163016_20210327T163001_0010  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T173351_00210327T			
CS_OFFL_SIR_LRM_18_20210327T15555_20210327T15550_001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T15555_20210327T15555_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T15555_20010327T16005_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16055_20210327T16005_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16055_20210327T16005_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16253_20210327T16236_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20210327T16234_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20210327T16234_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20210327T16234_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20210327T16234_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_202100327T16234_0001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T16234_20010327T16234_20010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20210327T163016_20210327T1763010_001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_			·
CS_OFFL_SIR_LRM_IB_20210327T165505_20210327T165515_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T160129_20210327T165565_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T160129_20210327T160155_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T160129_20210327T162015_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T161807_20210327T162836_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162342_20210327T162836_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162342_20210327T162846_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162342_20210327T162846_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162342_20210327T162856_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162362_0210327T162910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162913_20210327T162910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T162926_20210327T162906_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T163001_20210327T163001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T163012_20210327T163001_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T163010_20210327T176301_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T173010_20210327T173010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210327T173002_20210327T173300_D001 Loss of echo The tracking echo is missi			
CS_OFFL_SIR_LRM_1B_20210327T155519_20210327T160055_D001  Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T169035_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T161807_20210327T1601055_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162807_20210327T162010_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162832_20210327T162836_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162843_20210327T162846_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162843_20210327T162866_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162849_20210327T162866_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162849_20210327T162910_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162910_20210327T162910_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162910_20210327T1629200_D010 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T162920_20210327T163008_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T163011_20210327T163008_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T1730610_20210327T17006_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T173302_D010327T17006_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T173302_D010327T173300_D010 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T173403_D010327T173300_D001 Loss of echo The tracking echo is missi			
CS_OFFL_SIR_LRM_1B_20210327T16935_20210327T160129_20210327T160125_0001  Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162052_20210327T162011_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162052_20210327T162058_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162052_20210327T162058_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162054_20210327T162056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162056_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162055_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162055_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162055_D0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162050_20210327T162910_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162002_20210327T162001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T162002_20210327T1630010 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T163011_20210327T163013_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T173001_20210327T173006_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T173300_20210327T173315_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T173300_20210327T173300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T173300_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210327T173032_2021032			The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210327T173403_20210327T173410_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T173412_20210327T173916_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T175425_20210327T180301_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180305_20210327T180321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180324_20210327T180326_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180334_20210327T180458_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_20210327T173302_20210327T173311_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T173412_20210327T180301_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_20210327T173315_20210327T173330_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T180301_D001  Loss of echo  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210327T173403_20210327T173410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T180305_20210327T180321_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180324_20210327T180326_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180334_20210327T180458_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180500_20210327T182914_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_20210327T173412_20210327T173916_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T180324_20210327T180326_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180334_20210327T180458_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180500_20210327T182914_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_20210327T175425_20210327T180301_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T180334_20210327T180458_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20210327T180500_20210327T182914_D001  Loss of echo  The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210327T180305_20210327T180321_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T180500_20210327T182914_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210327T180324_20210327T180326_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210327T180334_20210327T180458_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T184724_20210327T190729_D001 Loss of echo The tracking echo is missing for one or more records			
	CS_OFFL_SIR_LRM_1B_20210327T184724_20210327T190729_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210327T190732_20210327T190849_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T190851_20210327T190853_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T190923_20210327T191130_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T191236_20210327T191555_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T191555_20210327T191736_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T193831_20210327T193848_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T202102_20210327T204037_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T204040_20210327T204251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T204256_20210327T204901_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T204906_20210327T204910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T204913_20210327T205007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T205211_20210327T205303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T205303_20210327T205318_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T205352_20210327T205529_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T205732_20210327T205813_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T215248_20210327T215806_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T220842_20210327T221014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T221019_20210327T221243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T221324_20210327T221704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T221747_20210327T221927_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T221930_20210327T222023_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T222536_20210327T222706_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T223138_20210327T223206_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T223207_20210327T223229_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210327T235357_20210328T000009_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:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20210327T075211_20210327T075215_D001	Cal1 corr. missing	The Cal1 correction has not been applied

#### 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.

lumber 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_20210327T154135_20210327T155503_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210327T190923_20210327T191130_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_SIN_1B_20210327T075211_20210327T075215_D001	Cal1 Correction missing,	The Cal1 Correction has not been applied

## 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:

C

## 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.

#### 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:

- 0

#### 5.5 L2 Measurement Quality Flag Check

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

Currently, there are several common error flags raised in the Level 2 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:

73

Product	Test Failed	Description
CS_OFFL_SIR_LRM_2_20210326T234203_20210327T001546_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_20210327T002940_20210327T005806_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_20210327T012424_20210327T013253_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_20210327T013734_20210327T013859_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_20210327T013902_20210327T014846_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_20210327T015041_20210327T015522_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_20210327T020941_20210327T021001_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_20210327T021331_20210327T022551_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_20210327T022751_20210327T023620_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_20210327T023747_20210327T024010_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_20210327T030724_20210327T031656_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_20210327T031858_20210327T032619_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_20210327T032728_20210327T033436_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_20210327T034923_20210327T035159_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_20210327T040047_20210327T040118_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210327T040838_20210327T040938_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_20210327T040940_20210327T041533_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_220210327T041703_20210327T042017_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_220210327T044208_20210327T044548_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210327T045706_20210327T051344_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_20210327T052631_20210327T060138_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_220210327T062642_20210327T065320_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_20210327T070552_20210327T073329_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_220210327T073530_20210327T073823_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_220210327T080429_20210327T081121_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_20210327T081124_20210327T083256_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_220210327T084511_20210327T092023_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_20210327T093319_20210327T093509_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_20210327T095918_20210327T100305_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_20210327T100916_20210327T101223_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_20210327T101409_20210327T101930_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210327T105023_20210327T105932_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_220210327T111200_20210327T111543_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_20210327T111949_20210327T112133_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_220210327T113143_20210327T113632_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_220210327T113820_20210327T115126_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_20210327T120350_20210327T121041_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_2_20210327T121050_20210327T121620_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_20210327T121745_20210327T123656_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_20210327T130312_20210327T132610_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_20210327T132931_20210327T132954_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_20210327T134415_20210327T135112_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_20210327T135127_20210327T140025_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_20210327T140030_20210327T140158_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_220210327T140639_20210327T141345_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_220210327T143846_20210327T144058_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_20210327T144225_20210327T145041_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_220210327T145701_20210327T150802_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_220210327T153151_20210327T153827_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_220210327T154135_20210327T155503_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_220210327T160129_20210327T160155_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210327T161507_20210327T161538_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210327T161807_20210327T162011_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_220210327T162141_20210327T162410_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_220210327T162532_20210327T162836_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_220210327T170302_20210327T172556_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_220210327T175147_20210327T175237_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_220210327T180500_20210327T182914_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_220210327T184724_20210327T190729_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_220210327T193831_20210327T193848_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_220210327T194044_20210327T200819_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_220210327T202102_20210327T204037_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_220210327T204256_20210327T204901_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_220210327T204913_20210327T205007_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_220210327T205732_20210327T205813_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_20210327T211210_20210327T214719_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_220210327T215939_20210327T220245_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_220210327T222536_20210327T222706_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_220210327T225214_20210327T230050_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_220210327T230336_20210327T232640_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_220210327T233838_20210327T235209_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_220210327T235357_20210328T000009_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_SIN_220210327T075211_20210327T075215_D001	Calibration Warning	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products 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	210	210	210	0	0
SIR_SAR_1B	149	149	149	0	0
SIR_SIN_1B	95	95	95	0	0
SIR_LRM_2	210	210	206	4	0

	SIR_SAR_2	95	149	149	0	0
	SIR_SIN_2	149	95	92	3	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			

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

# 6.2 QCC Warnings

Number of QCC reports with warnings

7

Product Type	AXDME	AXSMMEOCI	-	-	•	-	-
SIR_LRM_2_	0	4					
SIR_SIN_2_	3	0					

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

# 6.2 Missing QCC Reports

Number of products with missing QCC reports:

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