

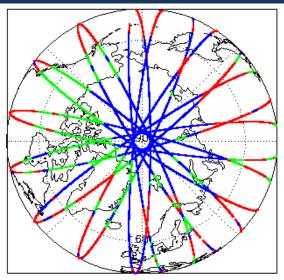
1. Overview

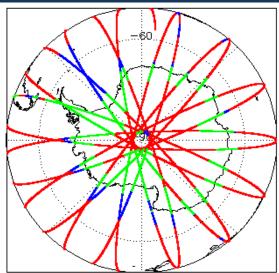
Report Production Date:	09-Apr-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

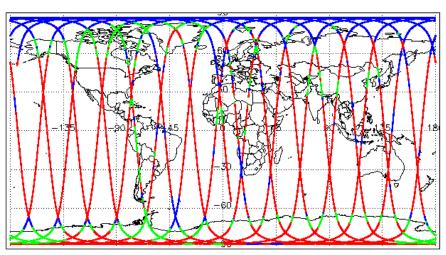
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

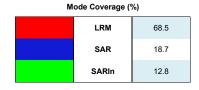
Mission / Instrument News					
09-Mar-2021	None				
10-Mar-2021	None				
11-Mar-2021	Nothing planned				

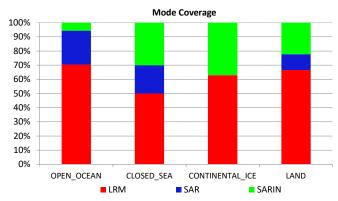
2. Global Coverage

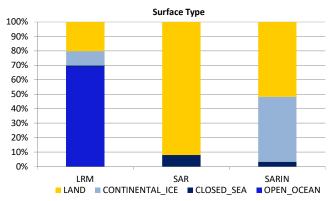












3. Instrument Configuration

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:

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4.3 Star Tracker Usage Check

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

Number of products with errors:

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.

umber of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210310T001921_20210310T002413_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T002446_20210310T002626_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T004536_20210310T004603_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T012923_20210310T013319_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T022410_20210310T022507_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T022509_20210310T022557_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T022559_20210310T022608_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T022611_20210310T022618_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T024323_20210310T024434_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T024437_20210310T024450_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T024452_20210310T024758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T024809_20210310T030106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T031845_20210310T033142_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T040317_20210310T040334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T040339_20210310T040352_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T040400_20210310T040406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T040410_20210310T040411_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T040414_20210310T040951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T041316_20210310T042343_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T042523_20210310T044025_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T045849_20210310T050025_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T050027_20210310T050046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T050048_20210310T050118_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T050422_20210310T050744_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T051305_20210310T051422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T051502_20210310T051734_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T051857_20210310T052602_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T054207_20210310T054657_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T054659_20210310T054834_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T054836_20210310T054954_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T054957_20210310T055050_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T055052_20210310T055053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T055417_20210310T055956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T063230_20210310T065909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T065912_20210310T065918_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T065927_20210310T070334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T070337_20210310T070729_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T072435_20210310T072911_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T073323_20210310T075909_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T080555_20210310T080920_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T090237_20210310T090607_D001	Loss of echo	The tracking echo is missing for one or more records

Company Comp	CS_OFFL_SIR_LRM_1B_20210310T090821_20210310T090855_D001	Loss of echo	The tracking echo is missing for one or more records
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Comp. Comp			
See Office Mile M			
Co. PT. Sel. May 18. 20039371 C2702_201391 T2295_201391 T2395_D001			
Co. OFT. SR. L.M. 18. 20210310712455 20210310712455 001			
CS_OFT_ER_UTM_18_20218310T134083_2023310T13408_20001 Loss of lebbo The tracking exh or intensing for one or more records CS_OFT_ER_UTM_18_20218310T134083_2023310T13408_20001 Loss of lebbo CS_OFT_ER_UTM_18_20218310T134083_2023310T13408_20001 Loss of lebbo CS_OFT_ER_UTM_18_20218310T134083_2023310T13408_20001 Loss of lebbo CS_OFT_ER_UTM_18_20218310T13408_2023310T13408_20001 Loss of lebbo The tracking exh or intensing for one or more records CS_OFT_ER_UTM_18_20218310T13408_2023310T13408_20001 Loss of lebbo CS_OFT_ER_UTM_18_20218310T13408_2023310T13408_20001 Loss of lebbo CS_OFT_ER_UTM_18_20218310T13408_2023310T13408_20001 Loss of lebbo The tracking exh or intensing for one or more records CS_OFT_ER_UTM_18_20218310T13408_2023310T13408_20001 Loss of lebbo CR_OFT_ER_UTM_18_20218310T13408_2023310T13408_20001 Loss of lebbo CR_OFT_ER_UTM_18_20218310T13408_20001 Loss of lebbo CR_OFT_ER_UTM_18_2021831			
CS_CPF_SIR_LEM_18_20216317134602_20210317134602_D001 CS_CPF_SIR_LEM_18_20216317134602_20210317134602_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317134602_20210317134602_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317134602_20210317134602_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317134602_20210317156041_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156041_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156041_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156042_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156042_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156040_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156040_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156040_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156040_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156040_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_20216317136042_D00101156060_D001 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_2021631716040_D0010 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_2021601716040_D0010 Loss of erbo The tracking act to a missing for one or more records CS_CPF_SIR_LEM_18_2021601716040_D0010 Loss of erbo The tracking act to a			·
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CS_OFFL_SIR_LRM_IB_20210310T152552_20210310T152557_D001		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210310T152566_20210310T152537_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T152681_20210310T152691_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T152624_20210310T152603_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T152634_20210310T152606_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T152634_20210310T160144_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T165643_20210310T160445_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T165605_20210310T160445_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T160507_20210310T160445_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162014_20210310T16244_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162014_20210310T170444_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170045_20210310T17004_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170045_20210310T170109_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170045_20210310T170149_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170190_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170149_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170319_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T172042_20210310T172054_D001 Loss of			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210310T152612_02010310T152630_0001 CS_OFFL_SIR_LRM_18_20210310T152612_02010310T152630_0001 CS_OFFL_SIR_LRM_18_20210310T152624_20210310T152750_0001 CS_OFFL_SIR_LRM_18_20210310T152624_20210310T152750_0001 CS_OFFL_SIR_LRM_18_20210310T152634_20210310T152750_0001 CS_OFFL_SIR_LRM_18_20210310T152634_20210310T160144_0001 CS_OFFL_SIR_LRM_18_20210310T160254_20210310T160144_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160440_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160505_20210310T160450_0001 CS_OFFL_SIR_LRM_18_20210310T160505_20210310T16040_0001 CS_OFFL_SIR_LRM_18_20210310T170043_20210310T170140_0001 CS_OFFL_SIR_LRM_18_20210310T170043_20210310T170140_0001 CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170149_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170249_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170249_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170249_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170249_20210310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170240_2020310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170240_2020310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170240_2020310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T170240_2020310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T1702008_2020310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T1702008_2020310T170040_0001 CS_OFFL_SIR_LRM_18_20210310T17018300_20210310T18030_0001 CS_OFFL_SIR_LRM_18_20210310T173008_202010310T180300_000		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_202103107152818_202103107152820_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107152843_20210310715270_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107152843_202103107116044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107160250_202103107160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107160507_202103107160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107160507_202103107160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107160507_202103107160443_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107160507_202103107160418_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107165305_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107165305_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107170043_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107170043_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107170140_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107170140_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107170140_202103107170010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107170140_202203107177036_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_202103107172240_202103107172550_D001 Loss o			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210310T152624_20210310T152730_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T150542_20210310T160144_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T1602014_20210310T16437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162014_20210310T16243_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162045_70210310T166137_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162055_20210310T170041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170042_001310T170041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170043_20210310T170042_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170140_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170140_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170140_20210310T170200_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170240_20210310T170240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170240_20210310T170240_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170240_20210310T170250_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T172040_20210310T172050_D001 Loss of		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T156423_20210310T16044_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T160250_20210310T160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T160250_20210310T160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T160250_20210310T160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T160264_20210310T160457_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T160254_20210310T160457_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T1605505_20210310T170041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170043_20210310T170041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170043_20210310T170040_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170143_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170143_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170143_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17045_20210310T170310_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170230_20210310T172350_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T172246_20210310T172550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_18_20210310T1605843_20210310T160450_D001 CS_OFFL_SIR_LRM_18_20210310T160250_20210310T160450_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162014_20210310T162034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162014_20210310T162034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162014_20210310T162034_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T162035_20210310T1605137_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170043_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170043_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170139_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170140_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170140_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170140_20210310T170203_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170203_20210310T170203_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170203_20210310T170203_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T170203_20210310T170205_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T172001_20210310T17205_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20210310T1731316_20210310T17205_D001 Loss of echo The tracking echo is missing for one or mo	CS_OFFL_SIR_LRM_1B_20210310T152624_20210310T152730_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_IB_20210310T160250_20210310T160250_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T16050T_20210310T161437_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T162914_20210310T162445_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T162914_20210310T164513T_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T169350_20210310T170041_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170043_20210310T170109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170139_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170140_20210310T170140_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170140_20210310T170203_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170140_20210310T170020_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170223_20210310T170230_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T170223_20210310T170245_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T172024_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T17260B_20210310T172550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T173116_20210310T175550_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T173116_D0210310T18543_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20210310T183650_20210310T18542_D001 Loss of echo The tracking echo is missing for one or m			The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T160307_20210310T162014_20210310T162243_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T162014_20210310T16418_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T16230F_20210310T16418_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T16530F_20210310T170040_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170043_20210310T170109_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170139_20210310T170143_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170140_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170203_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170214_20210310T170203_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17023_20210310T170219_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17023_20210310T17023_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17224_2001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T172245_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T173240_00101 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T173120_001301T172545_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T173120_001301T17354_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T183659_0011 Loss of echo The tracking echo is missing for	CS_OFFL_SIR_LRM_1B_20210310T155843_20210310T160144_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T162914_20210310T16293_D001 CS_OFFL_SIR_LRM_1B_20210310T162914_20210310T1645137_D001 CS_OFFL_SIR_LRM_1B_20210310T164557_20210310T1645137_D001 CS_OFFL_SIR_LRM_1B_20210310T165305_20210310T170041_D001 CS_OFFL_SIR_LRM_1B_20210310T160305_20210310T170041_D001 CS_OFFL_SIR_LRM_1B_20210310T170043_20210310T17019_D001 CS_OFFL_SIR_LRM_1B_20210310T170043_20210310T17019_D001 CS_OFFL_SIR_LRM_1B_20210310T170143_D001 CS_OFFL_SIR_LRM_1B_20210310T170143_D2001310T170143_D001 CS_OFFL_SIR_LRM_1B_20210310T170143_D2001310T170143_D001 CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170203_D001 CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170203_D001 CS_OFFL_SIR_LRM_1B_20210310T170215_20210310T170203_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T170232_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D001 CS_OFFL_SIR_LRM_1B_20210310T172032_D00101T172552_D001 CS_OFFL_SIR_LRM_1B_20210310T172030_D00101T172552_D001 CS_OFFL_SIR_LRM_1B_20210310T173310_20210310T172552_D001 CS_OFFL_SIR_LRM_1B_20210310T1733240_D001 CS_OFFL_SIR_LRM_1B_20210310T1733240_D001 CS_OFFL_SIR_LRM_1B_20210310T1733240_D001 CS_OFFL_SIR_LRM_1B_20210310T1733240_D001 CS_OFFL_SIR_LRM_1B_20210310T1794736_D00101 CS_OFFL_SIR_LRM_1B_20210310T1794736_D00101 CS_OFFL_SIR_LRM_1B_20210310T194736_D00101 CS_OFFL_SIR_LRM_1B_20210310T194736_D00101 CS_OFFL_SIR_LRM_1B_20210310T194736_D00101 CS_OFFL_SIR_LRM_1B_20210310T194736_D00101 CS_OFFL_SIR_LRM_1B_20210310T194736_D00101 CS_OFFL_SIR_LRM_1B_20210310T194736_D0010170031001001 CS_OFFL_SIR_LRM_1B_20210310T194736_D00101700310010010010		Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T162914_20210310T164513_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T165505_20210310T170014_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170032_20210310T170109_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170139_20210310T170143_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170139_20210310T170145_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170145_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T17023_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170215_20210310T170219_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170215_20210310T170219_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170215_20210310T17035_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T172246_20210310T17255_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17246_20210310T17255_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17312_20210310T17355_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17312_20210310T17354_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T18324_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T18355_20210310T18324_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T18055_20210310T18432_D001 Loss of echo The tracking echo is missing for one or more records C	CS_OFFL_SIR_LRM_1B_20210310T160507_20210310T161437_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T164557_20210310T165137_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170043_20210310T1701043_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170143_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170146_20210310T170143_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170146_20210310T170146_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170149_20210310T170203_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T170215_20210310T170219_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17023_20210310T17023_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17023_20210310T1723_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17201_20210310T17214_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17226_20210310T17255_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17260_20210310T17255_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T17312_20210310T178543_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T18374_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T18356_20210310T18374_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T18985_20210310T18981_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20210310T190815_20210310T190813_D001 Loss of echo The tracking echo is mi	CS_OFFL_SIR_LRM_1B_20210310T162014_20210310T162243_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20210310T201549_20210310T202120_D001	Loss of echo	The tracking echo is missing for one or more records
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	CS_OFFL_SIR_LRM_1B_20210310T212644_20210310T214521_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210310T214526_20210310T215220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T215223_20210310T215316_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T215454_20210310T215558_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T215600_20210310T215605_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T215743_20210310T215844_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T225836_20210310T230351_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T232036_20210310T232220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T232238_20210310T232942_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T233125_20210310T233408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210310T233655_20210310T233755_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors: 0

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

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.

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: 60

Product	Test Failed	Description
	,	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220210310T001921_20210310T002413_D001		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

CS_OFFL_SIR_LRM_220210310T002446_20210310T002626_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_220210310T004751_20210310T010810_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_220210310T010906_20210310T012135_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_220210310T013521_20210310T020418_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_220210310T023111_20210310T023841_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_220210310T024323_20210310T024434_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_220210310T024452_20210310T024758_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_220210310T024809_20210310T030106_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_220210310T031845_20210310T033142_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_220210310T033356_20210310T034551_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_220210310T034847_20210310T034925_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_20210310T040317_20210310T040334_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210310T041316_20210310T042343_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_220210310T042523_20210310T044025_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_220210310T050422_20210310T050744_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_220210310T051502_20210310T051734_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_220210310T051857_20210310T052602_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_220210310T054659_20210310T054834_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210310T055052_20210310T055053_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20210310T055417_20210310T055956_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_20210310T060017_20210310T061921_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_20210310T063230_20210310T065909_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_220210310T073323_20210310T075909_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_220210310T081136_20210310T084500_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_220210310T090934_20210310T093010_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_220210310T095105_20210310T102548_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_220210310T103902_20210310T104004_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_220210310T110908_20210310T111818_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_220210310T113037_20210310T115328_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_220210310T115614_20210310T120535_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_220210310T122702_20210310T122836_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_220210310T123721_20210310T124221_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_220210310T124408_20210310T125724_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_220210310T131007_20210310T133734_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_220210310T133913_20210310T134220_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_220210310T140740_20210310T143156_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_220210310T145555_20210310T150641_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_220210310T150645_20210310T151726_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_220210310T154049_20210310T154305_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_220210310T154423_20210310T155606_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_220210310T160507_20210310T161437_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_220210310T162914_20210310T164418_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_220210310T164557_20210310T165137_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_220210310T172001_20210310T172124_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210310T172246_20210310T172552_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_220210310T172608_20210310T172957_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_220210310T173120_20210310T175543_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_220210310T180853_20210310T183114_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_220210310T183116_20210310T183248_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_220210310T190815_20210310T193506_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_220210310T194738_20210310T201304_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_220210310T204552_20210310T211404_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_220210310T212644_20210310T214521_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_220210310T214526_20210310T215220_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_220210310T215223_20210310T215316_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_220210310T221752_20210310T225304_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__20210310T232036_20210310T232220_D001

CS_OFFL_SIR_LRM_2__20210310T235755_20210311T000639_D001

Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)

Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable

There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more 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

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	182	182	182	0	0
SIR SAR 1B	128	128	128	0	0
SIR SIN 1B	103	103	103	0	0
SIR_LRM_2	182	182	179	3	0
SIR SAR 2	103	128	128	0	0
SIR SIN 2	128	103	101	2	0
SIR GDR 2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

15

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	
SIR_GDR_2_	15	15	15	15	15	15	15	15		

Test Description Key:					
Abbreviation	Test name	Details			
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch			
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)			
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)			
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)			
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)			
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)			
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)			
STRUCTURESIZEANDRSTRUCTURE_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_LRM_2_	0	3					
SIR SIN 2	2	0					

Test Description Key:	est 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__20210310T232353_20210311T010308_D002