

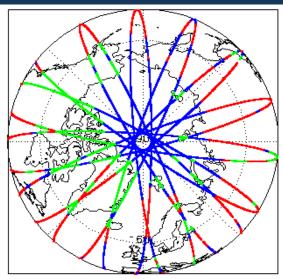
## 1. Overview

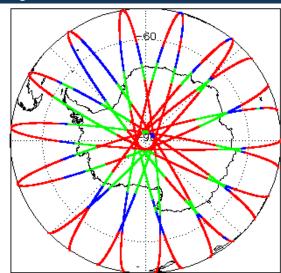
Report Production Date:	11-Jun-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

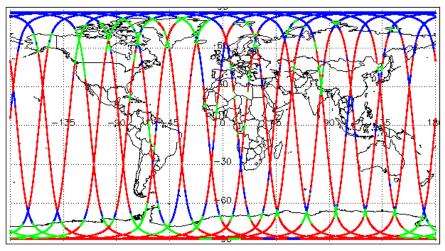
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

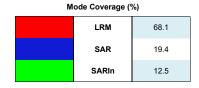
Mission / Instrument News		
10-May-2020	None	
11-May-2020	None	
12-May-2020	Nothing planned	

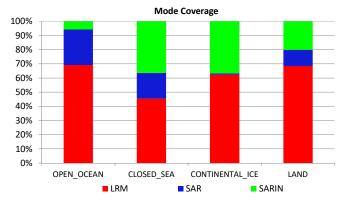
# 2. Global Coverage

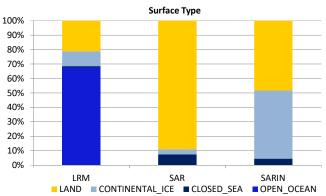












## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

## 4. Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Number of products with errors:

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.

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200511T000659_20200511T001036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T001109_20200511T001211_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T001256_20200511T001326_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T001329_20200511T001334_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T001337_20200511T003429_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T004456_20200511T005300_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T014453_20200511T014527_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T014825_20200511T015153_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T015211_20200511T015251_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T015830_20200511T020340_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T020503_20200511T021018_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T031152_20200511T031220_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T033000_20200511T033031_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T033133_20200511T033312_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T033345_20200511T033840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T034121_20200511T034652_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T041546_20200511T044202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T045008_20200511T045010_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T045012_20200511T045213_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T060007_20200511T061119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T061124_20200511T062149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T062539_20200511T062738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T062742_20200511T062743_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T062746_20200511T062809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T062812_20200511T063019_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T063022_20200511T063034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T063041_20200511T063045_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T063048_20200511T063159_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T064513_20200511T070059_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T070320_20200511T070613_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T070719_20200511T070929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T070949_20200511T071827_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T072440_20200511T072711_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T073430_20200511T074844_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T075024_20200511T075445_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T075732_20200511T080453_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T080455_20200511T080506_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T080509_20200511T080532_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T080602_20200511T081202_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T082714_20200511T083425_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200511T083548_20200511T085928_D001	Loss of echo	The tracking echo is missing for one or more records

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CS_OFFL_SIR_LRM_18_20200511T163842_20200511T163932_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T171228_2020051T171249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T171228_2020051T171249_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T1713302_2020051T1714328_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17187192_2020051T17181947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181759_2020051T17181947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181759_2020051T17181947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181759_2020051T17181947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181759_2020051T17181947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181792_2020051T17181947_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181949_20200051T17181939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17181949_2020051T17181939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T1718295_2020051T17182050_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T1718295_2020051T17182050_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17182052_200051T17182052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17182052_200051T17182052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_2020051T17192052_200051T17192052_D001 Loss of echo The tra			
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CS_OFF_SIR_LRM_18_20200511719281_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20200511719281_2000511719280_001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181912_20200511718928_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181912_202005117181947_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_2020051171819192_2020051171819347_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181930_202005117181935_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181932_202005117181935_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181932_202005117181935_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181932_202005117181935_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117181934_202005117181935_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20200511718234_202005117183052_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117182352_00005117183052_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117182332_00005117183052_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_202005117192352_00005117183052_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20200511719233_0000511718233_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20200511719233_0000511718233_0001  Loss of exho  The tracking echo is missing for one or more records  CS_OFF_SIR_LRM_18_20200511719233_00005117193233_0001  Loss of exho  The tracking echo is mis			
CS_OFFL_SIR_LRM_1B_202005117172218_202005117174249_D001  CS_OFFL_SIR_LRM_1B_202005117173300_202005117174528_D001  CS_OFFL_SIR_LRM_1B_202005117187310_2020051171876501_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181762_20200511718747_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181760_202005117181847_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181902_202005117181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181902_202005117181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181903_202005117181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181948_20200511718200_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181982_20200511718200_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117181982_20200511718200_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117182982_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117182982_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117182828_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511719208_D00511719208_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511719208_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511719208_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511719208_D0011  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_202005117120470_D0			
CS_OFF_SIR_LRM_18_202005111180442_2020511173050_2020511180450_200511190450_20051119			
CS_OFFL_SIR_LRM_18_202005117181912_202005117181947_D001  CS_OFFL_SIR_LRM_18_202005117181912_202005117181947_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117181950_2020051171819847_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_20200511718190_202005117181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117181900_202005117181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117181941_202005117181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117181941_202005117181955_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117181941_20205117182005_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117182952_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117182952_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117182952_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117182952_D0005117182932_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117192052_D0005117192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_18_202005117120552_D02005117120334_D001  Loss of echo  The tracking echo is missing for			
CS_OFFL_SIR_LRM_IB_202005117181792_0200517181879_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117181894_D200517181895_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117181936_D00200517181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117181936_D00200517181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117181936_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117181936_D0010010  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117181936_D0200517182032_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117182413_20200517182032_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117182413_20200517182032_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117182413_20005171782032_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117182052_202005171782032_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117192056_202005171792032_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117192056_202005171792330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005117192056_202005171792330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005171792052_202005171793855_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_202005171792052_202005171793855_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051717907_202005171791005_D001  Loss of echo  The tracking			
CS_OFFL_SIR_LRM_IB_20200511T181750_2020051T181847_D001  CS_OFFL_SIR_LRM_IB_2020051T181849_2020051T181855_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T1818193_2020051T181855_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T1818193_2020051T17181935_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T181959_2020051T181955_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T181959_2020051T182006_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T182326_2020051T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T191001_2020051T192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T191001_2020051T192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T192056_2020051T192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T192056_2020051T192233_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T193954_2020051T1793954_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T1793954_2020051T1790934_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T1793954_2020051T1790934_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T1714145_2020051T1714145_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_IB_2020051T1714145_202005			
CS_OFFL_SIR_LRM_18_20200511T181849_20200511T181858_D001  Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T181939_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T181959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T181959_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T181959_20200511T182022_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T182143_20200511T182322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T182243_20200511T182322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T182282_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T182058_20200511T18228_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T192056_20200511T192214_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T192233_D000511T192233_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T192233_D00511T192330_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T192305_20200511T19405_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T194706_20200511T21005_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T214707_20200511T21400_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T21430_20200511T21440_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T214312_20200511T214435_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20200511T214323_D000511T2			
CS_OFFL_SIR_LRM_18_20200511T181938_20200511T181938_D001			
CS_OFFL_SIR_LRM_1B_20200511T181938_20200511T181935_D001  CS_OFFL_SIR_LRM_1B_2020051T1R81959_20200511T182006_D001  CS_OFFL_SIR_LRM_1B_2020051T181959_20200511T182322_D001  CS_OFFL_SIR_LRM_1B_2020051T181959_2020051T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T183826_2020051T183822_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T192056_2020051T192214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T192233_2020051T192330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T19233_2020051T192330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T192355_2020051T193355_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T192555_2020051T179414B_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T17204706_2020051T1791005_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T172104706_2020051T1791005_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T172104706_2020051T1721005_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T172104706_2020051T17210406_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T172104706_20051T17210406_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_2020051T172104706_D001  Loss of echo			
CS_OFFL_SIR_LRM_1B_20200511T181954_20200511T182006_D001			
CS_OFFL_SIR_LRM_1B_20200511T181959_20200511T182322_D001  CS_OFFL_SIR_LRM_1B_20200511T182312_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T182322_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192052_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192056_20200511T192214_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192233_D000511T192230_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T192330_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T193448_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T194562_20200511T200934_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T204706_20200511T2100934_D001  Loss of echo  The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T2104706_20200511T2100000000000000000000000000000			
CS_OFFL_SIR_LRM_IB_20200511T182143_2020051T178322_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T178322_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1780052_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179205_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179205_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179233_D0001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179233_D0001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179235_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179355_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T179354_200051T1720934_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1720934_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1721005_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1721414_2020051T172140_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1721414_2020051T172141_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1721415_2020051T1721414_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T17214205_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T17214205_D0051T214435_D001   Loss of echo   The tracking echo is missing for one or more records   CS_OFFL_SIR_LRM_IB_2020051T1721431_D0051T212435_D001			
CS_OFFL_SIR_LRM_18_20200511T182552_20200511T183622_D001  CS_OFFL_SIR_LRM_18_20200511T183826_20200511T18528_D001  CS_OFFL_SIR_LRM_18_20200511T191001_20200511T192052_D001  CS_OFFL_SIR_LRM_18_20200511T192056_20200511T192230_D001  CS_OFFL_SIR_LRM_18_20200511T192056_20200511T192330_D001  CS_OFFL_SIR_LRM_18_20200511T192233_20200511T192330_D001  CS_OFFL_SIR_LRM_18_20200511T193253_20200511T192330_D001  CS_OFFL_SIR_LRM_18_20200511T193954_20200511T193355_D001  CS_OFFL_SIR_LRM_18_20200511T193954_20200511T193555_D001  CS_OFFL_SIR_LRM_18_20200511T1939552_20200511T194148_D001  CS_OFFL_SIR_LRM_18_20200511T193552_20200511T200934_D001  CS_OFFL_SIR_LRM_18_20200511T200706_20200511T21000_D001  CS_OFFL_SIR_LRM_18_20200511T21007_20200511T21000_D001  CS_OFFL_SIR_LRM_18_20200511T21007_20200511T2100001  CS_OFFL_SIR_LRM_18_20200511T2101104_20200511T210001  CS_OFFL_SIR_LRM_18_20200511T210142_00200511T210001  CS_OFFL_SIR_LRM_18_20200511T210142_00200511T210001  CS_OFFL_SIR_LRM_18_20200511T210142_00200511T210001  CS_OFFL_SIR_LRM_18_20200511T210142_00200511T21410001  CS_OFFL_SIR_LRM_18_20200511T210142_00200511T21410001  CS_OFFL_SIR_LRM_18_20200511T210142_00001  CS_OFFL_SIR_LRM_18_20200511T210142_000001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T214142_000001  CS_OFFL_SIR_LRM_18_20200511T214142_000001  CS_OFFL_SIR_LRM_18_20200511T214143_00001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T21415_000001  CS_OFFL_SIR_LRM_18_20200511T21420000011T214204_00001  CS_OFFL_SIR_LRM_18_20200511T214337_20200511T2142050001  CS_OFFL_SIR_LRM_18_20200511T214337_20200511T2142050001  CS_OFFL_SIR_LRM_18_20200511T214337_20200511T2142050001  CS_OFFL_SIR_LRM_18_20200511T214300001  CS_OFFL_SIR_LRM_18_20200511T214300001  CS_OFFL_SIR_LRM_18_20200511T214300001  CS_OFFL_SIR_LRM_18_20200511T214300001  CS_OFFL_SIR_LRM_18_20200511T24300000000000000000000000			
CS_OFFL_SIR_LRM_1B_20200511T1183826_20200511T192052_D001  CS_OFFL_SIR_LRM_1B_20200511T192056_20200511T192214_D001  CS_OFFL_SIR_LRM_1B_20200511T192056_20200511T192330_D001  CS_OFFL_SIR_LRM_1B_20200511T192233_20200511T192330_D001  CS_OFFL_SIR_LRM_1B_20200511T192654_20200511T193855_D001  CS_OFFL_SIR_LRM_1B_20200511T192654_20200511T193855_D001  CS_OFFL_SIR_LRM_1B_20200511T193654_20200511T193855_D001  CS_OFFL_SIR_LRM_1B_20200511T193654_20200511T193855_D001  CS_OFFL_SIR_LRM_1B_20200511T193654_20200511T193855_D001  CS_OFFL_SIR_LRM_1B_20200511T195552_20200511T20934_D001  CS_OFFL_SIR_LRM_1B_20200511T204706_20200511T21005_D001  CS_OFFL_SIR_LRM_1B_20200511T21007_20200511T21005_D001  CS_OFFL_SIR_LRM_1B_20200511T211007_20200511T21001_D001  CS_OFFL_SIR_LRM_1B_20200511T211010_20200511T21001_D001  CS_OFFL_SIR_LRM_1B_20200511T2110114142_20200511T214116_D001  CS_OFFL_SIR_LRM_1B_20200511T211014422_00011T212442_D001  CS_OFFL_SIR_LRM_1B_20200511T214142_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214149_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T2141412_20200511T214142_D001  CS_OFFL_SIR_LRM_1B_20200511T214141_20200511T214419_D001  CS_OFFL_SIR_LRM_1B_20200511T214141_20200511T214142_D001  CS_OFFL_SIR_LRM_1B_20200511T214141_20200511T21421_D001  CS_OFFL_SIR_LRM_1B_20200511T21437_20200511T21435_D001  CS_OFFL_SIR_LRM_1B_20200511T21437_20200511T21435_D001  CS_OFFL_SIR_LRM_1B_20200511T21437_20200511T22392_D001  CS_OFFL_SIR_LRM_1B_20200511T21438_D000511T223548_D001  CS_OFFL_SIR_LRM_1B_20200511T223530_20200511T225348_D001  CS_OFFL_SIR_LRM_1B_20200511T225530_20200511T225348_D001  CS_OFFL_SIR_LRM_1B_20200511T225530_20200511T225344_D001  CS_OFFL_SIR_LRM_1B_20200511T225530_20200511T225344_D001  CS_OFFL_SIR_LRM_1B_20200511T20550_20200511T2255414_D00			
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CS_OFFL_SIR_LRM_1B_20200511T231540_20200511T232109_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T232216_20200511T232601_D001 Loss of echo The tracking echo is missing for one or more records			
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CS_OFFL_SIR_LRM_1B_20200511T232603_20200511T232608_D001 Loss of echo The tracking echo is missing for one or more records  CS_OFFL_SIR_LRM_1B_20200511T232610_20200511T232614_D001 Loss of echo The tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_202005111232616_202005111235151_D001			
55_5.1.2_515_202000111202010_202000111200101_50001   Loop of colle	33_3E_0II\_EI\III_10_E02000111202010_202000111200101_D001	2000 01 00110	account control of more records

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20200511T214804_20200511T214811_D001	Cal1 corr. missing	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.

Number of products with errors:

0

#### 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_20200511T014825_20200511T015153_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_20200511T214804_20200511T214811_D001	Cal1 Correction missing,	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:

### 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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200511T001337_20200511T003429_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_220200511T003646_20200511T004224_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_220200511T005635_20200511T013015_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_220200511T021329_20200511T022125_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_220200511T023626_20200511T025757_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_220200511T030043_20200511T031002_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_20200511T034121_20200511T034652_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_20200511T034840_20200511T035944_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_20200511T041546_20200511T044202_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_20200511T044342_20200511T044844_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_220200511T051205_20200511T053625_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_20200511T060007_20200511T061119_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_220200511T061124_20200511T062149_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_220200511T064513_20200511T070059_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_220200511T070949_20200511T071827_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_220200511T073430_20200511T074844_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_220200511T075024_20200511T075445_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_20200511T080602_20200511T081202_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20200511T082426_20200511T082551_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200511T082714_20200511T083425_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_220200511T083548_20200511T085928_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_20200511T091347_20200511T093713_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_220200511T100423_20200511T103817_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_220200511T105310_20200511T112021_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_220200511T114611_20200511T114858_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_220200511T114923_20200511T121730_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_220200511T123124_20200511T125738_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_220200511T132218_20200511T135609_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_220200511T142457_20200511T142638_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_20200511T150221_20200511T151103_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_220200511T151349_20200511T153518_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_220200511T155039_20200511T160222_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_220200511T160409_20200511T161126_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_220200511T161221_20200511T161627_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_220200511T161221_20200511T161627_D001  CS_OFFL_SIR_LRM_220200511T162313_20200511T162506_D001	(Retracker 3), Backscatter Error	
	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220200511T162313_20200511T162506_D001	(Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20200511T162313_20200511T162506_D001  CS_OFFL_SIR_LRM_2_20200511T164230_20200511T164630_D001	(Retracker 3), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter Error (Retracker 2)  Height Error (Retracker 2), Backscatter	for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220200511T162313_20200511T162506_D001  CS_OFFL_SIR_LRM_220200511T164230_20200511T164630_D001  CS_OFFL_SIR_LRM_220200511T164810_20200511T171432_D001	(Refracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records

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CS_OFFL_SIR_LRM_220200511T182552_20200511T183622_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_220200511T183826_20200511T185328_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_220200511T191001_20200511T192052_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_220200511T192654_20200511T193855_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_220200511T193954_20200511T194148_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200511T195552_20200511T200934_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200511T204706_20200511T211005_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_220200511T211014_20200511T212042_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_220200511T213439_20200511T214116_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200511T214204_20200511T214214_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200511T214811_20200511T220855_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_220200511T222611_20200511T225348_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_220200511T232616_20200511T235151_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_SIN_220200511T214804_20200511T214811_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