

19/06/2021



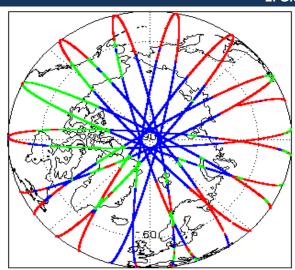
1. Overview

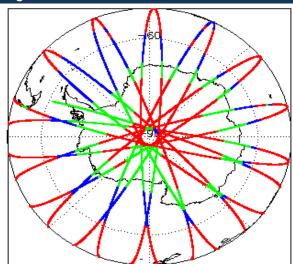
Report Production Date:	20-Jul-2021
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

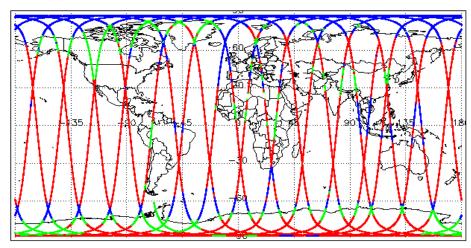
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	See Section 4.5
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

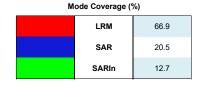
Mission / Instrument News			
18-Jun-2021	None		
19-Jun-2021	None		
20-Jun-2021	Nothing planned		

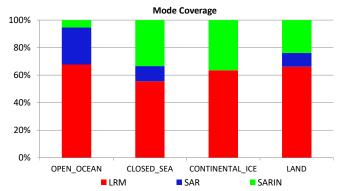
2. Global Coverage

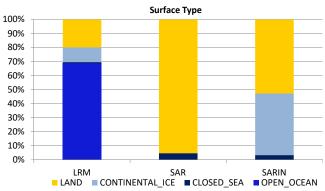












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

.

4.2 L1B Product Header Analysis

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

Number of products with errors:

0

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors:

00

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20210618T235733_20210619T000149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T000152_20210619T000716_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T000719_20210619T000752_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T000756_20210619T001106_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T004931_20210619T011512_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T011524_20210619T012242_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T013609_20210619T014249_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T014321_20210619T014322_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T014325_20210619T014333_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T014337_20210619T014348_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T014945_20210619T021020_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T022806_20210619T025444_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T025447_20210619T025455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T025459_20210619T025507_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T025509_20210619T025517_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T025520_20210619T025625_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T031718_20210619T032245_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T032351_20210619T032522_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T032524_20210619T032534_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T032536_20210619T032552_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T032554_20210619T032811_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T032813_20210619T032825_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T032828_20210619T035243_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T045452_20210619T050032_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050105_20210619T050139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050335_20210619T050338_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050340_20210619T050354_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050357_20210619T050440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050442_20210619T050444_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050626_20210619T050802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T050908_20210619T051209_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T051348_20210619T051404_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T051738_20210619T052408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T053512_20210619T054043_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T063630_20210619T063654_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T063949_20210619T064041_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T064052_20210619T064102_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T064358_20210619T064651_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T064834_20210619T065053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T071432_20210619T071941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T072615_20210619T080217_D001	Loss of echo	The tracking echo is missing for one or more records

	Í	İ
CS_OFFL_SIR_LRM_1B_20210619T085651_20210619T085846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T090618_20210619T091857_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T092018_20210619T092308_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T092749_20210619T094215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T101402_20210619T102817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T103553_20210619T103757_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T104508_20210619T105858_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T110216_20210619T111139_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T111406_20210619T112157_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T113618_20210619T113749_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T113822_20210619T115103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T121353_20210619T122203_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T124655_20210619T124840_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T124842_20210619T124846_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T124849_20210619T124902_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T125243_20210619T125328_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210619T125353 20210619T125355 D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210619T125359 20210619T125437 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T125444_20210619T125540_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T125545_20210619T130121_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T131614_20210619T132242_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20210619T132249 20210619T132649 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T132652_20210619T134911_D001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	
CS_OFFL_SIR_LRM_1B_20210619T135517_20210619T140042_D001	Loss of echo	The tracking cabe is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T143059_20210619T143105_D001		The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T143217_20210619T143759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T143835_20210619T143913_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T145958_20210619T150014_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T150017_20210619T150017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T150021_20210619T150042_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T150046_20210619T150143_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T150146_20210619T150146_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T150149_20210619T150149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T150151_20210619T152758_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T154320_20210619T161033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202106191154320_202106191161033_D001 CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001	Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001	Loss of echo Loss of echo Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175709_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175507_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T192820_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T182322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T193027_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T193027_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T193027_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T194931_20210619T195032_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T192340_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T193027_D001 CS_OFFL_SIR_LRM_1B_20210619T194931_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T194931_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175507_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T191192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192027_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214239_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175410_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175656_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T193027_D001 CS_OFFL_SIR_LRM_1B_20210619T192336_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214239_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T214836_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T193027_D001 CS_OFFL_SIR_LRM_1B_20210619T194931_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214239_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T220436_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T220436_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T220436_D001 CS_OFFL_SIR_LRM_1B_20210619T2122225_20210619T223541_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T194931_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214239_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T215006_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T223541_D001 CS_OFFL_SIR_LRM_1B_20210619T22225_20210619T223541_D001 CS_OFFL_SIR_LRM_1B_20210619T222255_20210619T2225120_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210619T161036_20210619T161430_D001 CS_OFFL_SIR_LRM_1B_20210619T161503_20210619T162022_D001 CS_OFFL_SIR_LRM_1B_20210619T173016_20210619T173549_D001 CS_OFFL_SIR_LRM_1B_20210619T173552_20210619T173925_D001 CS_OFFL_SIR_LRM_1B_20210619T174002_20210619T174009_D001 CS_OFFL_SIR_LRM_1B_20210619T174011_20210619T174503_D001 CS_OFFL_SIR_LRM_1B_20210619T175103_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175236_20210619T175224_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175307_D001 CS_OFFL_SIR_LRM_1B_20210619T175307_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T175658_20210619T175709_D001 CS_OFFL_SIR_LRM_1B_20210619T181301_20210619T182340_D001 CS_OFFL_SIR_LRM_1B_20210619T192322_20210619T192820_D001 CS_OFFL_SIR_LRM_1B_20210619T192836_20210619T193027_D001 CS_OFFL_SIR_LRM_1B_20210619T194931_20210619T195032_D001 CS_OFFL_SIR_LRM_1B_20210619T195044_20210619T202456_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214239_D001 CS_OFFL_SIR_LRM_1B_20210619T212803_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T214836_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T220436_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T220436_D001 CS_OFFL_SIR_LRM_1B_20210619T214841_20210619T220436_D001 CS_OFFL_SIR_LRM_1B_20210619T2122225_20210619T223541_D001	Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check

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

Number of products with errors:

Product	est Failed	Description
CS_OFFL_SIR_SIN_1B_20210619T014938_20210619T014945_D001 Cal	al1 corr. missing	The Cal1 correction has not been applied

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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:

0

3

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_20210619T173016_20210619T173549_D001	IECHO EFFOR TEK ECHO EFFOR	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20210619T230713_20210619T231411_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_20210619T014938_20210619T014945_D001	Cal1 Correction missing,	The Cal1 Correction has not been applied

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

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:

0

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_220210619T001921_20210619T003349_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_220210619T004931_20210619T011512_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_220210619T014945_20210619T021020_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_220210619T021107_20210619T021242_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_220210619T022806_20210619T025444_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_220210619T032828_20210619T035243_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_220210619T040754_20210619T044152_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_220210619T045452_20210619T050032_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_220210619T050626_20210619T050802_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_220210619T053022_20210619T053139_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_220210619T054737_20210619T062229_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_220210619T065302_20210619T071008_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_220210619T072615_20210619T080217_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_220210619T081350_20210619T081403_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_220210619T082433_20210619T082903_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_220210619T082935_20210619T084715_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_220210619T090618_20210619T091857_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_220210619T092018_20210619T092308_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_220210619T092749_20210619T094215_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_220210619T095508_20210619T101215_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_220210619T101402_20210619T102817_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_220210619T104508_20210619T105858_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_220210619T110216_20210619T111139_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_220210619T113822_20210619T115103_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_220210619T115641_20210619T120451_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_220210619T122441_20210619T123955_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_220210619T132249_20210619T132649_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_220210619T132652_20210619T134911_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_220210619T140444_20210619T142833_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_220210619T150046_20210619T150143_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210619T150151_20210619T152758_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_220210619T154320_20210619T161033_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_220210619T161503_20210619T162022_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_220210619T163409_20210619T170637_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_220210619T175814_20210619T180103_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_220210619T181301_20210619T182340_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

	1	
CS_OFFL_SIR_LRM_220210619T182444_20210619T184634_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_220210619T190223_20210619T191955_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_220210619T193755_20210619T193806_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_220210619T195044_20210619T202456_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_220210619T204404_20210619T211527_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_220210619T212803_20210619T214239_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_220210619T214720_20210619T214836_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_220210619T214841_20210619T215006_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_220210619T215120_20210619T220436_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_220210619T222225_20210619T223541_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_220210619T223755_20210619T225120_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_220210619T225230_20210619T225429_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_220210619T231717_20210619T232741_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_220210619T232921_20210619T234326_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_SIN_220210619T014938_20210619T014945_D001	Calibration Warning	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products for one or more records

6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	162	162	162	0	0
SIR_SAR_1B	108	108	108	0	0
SIR_SIN_1B	102	102	102	0	0
SIR_LRM_2	162	162	158	4	0
SIR_SAR_2	102	108	108	0	0
SIR_SIN_2	108	102	100	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

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

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)	
STRUCTURESIZEANDF	STRUCTURE_SIZE_AND_READ	Under investigation.	

6.2 QCC Warnings

Number of QCC reports with warnings

7

Total number	of occurrences	of each wa	rning

Total Halling							
Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	•	•	•
SIR_LRM_2_	0	3	1	1			
SIR_SIN_2_	2	0	0	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			
AXSMEOOO	AttributeXrefSsbMustExistOverOpenOcean	The xref_ssb is mandatory in LRM products over open ocean			

AXWMMEOOO Attribute Xref Wind Model Must Exist Over Open Ocean The xref_wind_model attribute is mandatory in LRM products over open ocean

Number of products with missing QCC reports:

6.2 Missing QCC Reports