

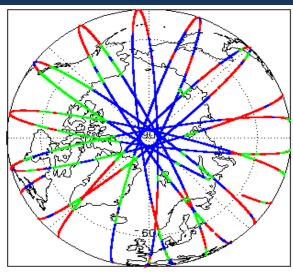
1. Overview

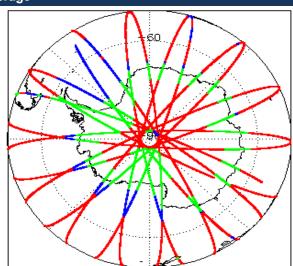
Report Production Date:	13-Mar-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

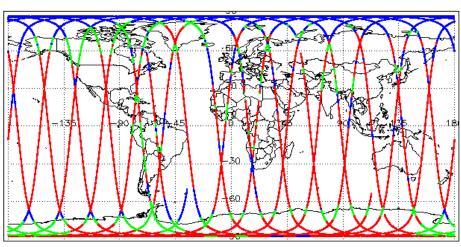
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

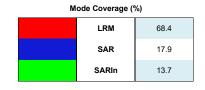
Mission / Ins	trument News
11-Feb-202	None
12-Feb-202	SIRAL unavailability on 12-Feb-2020 from 09:17:05 to 09:53:54 due to an unplanned platform anomaly.
13-Feb-202	Nothing planned

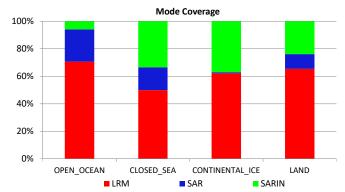
2. Global Coverage

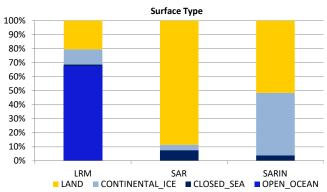












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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:

4.3 Star Tracker Usage Check

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

0

Number of products with errors: 0

4.4 L1B Tracking Flags Check

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

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

Number of products with errors: 112

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200212T002147_20200212T002406_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T002410_20200212T002415_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T002738_20200212T002930_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T003509_20200212T003933_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T004056_20200212T004802_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T010418_20200212T010919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T010922_20200212T010940_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T011005_20200212T011032_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T011036_20200212T011057_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T011101_20200212T011306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T011312_20200212T011325_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T011626_20200212T011751_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T014855_20200212T015038_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T015435_20200212T021945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T021947_20200212T022928_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T024636_20200212T025111_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T032754_20200212T033119_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T042421_20200212T042925_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T043017_20200212T043203_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T043211_20200212T043302_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T043305_20200212T043313_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T043315_20200212T045353_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T060219_20200212T060303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T060536_20200212T060843_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T060847_20200212T060923_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T060940_20200212T061015_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T061558_20200212T062054_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T062114_20200212T062559_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T062644_20200212T062900_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T072934_20200212T072945_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T074719_20200212T074831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T074839_20200212T074858_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T074908_20200212T074957_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T075002_20200212T075016_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T075104_20200212T075602_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T082302_20200212T082614_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T083210_20200212T083804_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T083814_20200212T085956_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T090742_20200212T090817_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T090827_20200212T090941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T101829_20200212T102941_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T103151_20200212T103951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104257_20200212T104344_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104411_20200212T104426_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104429_20200212T104440_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104444_20200212T104455_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104457_20200212T104518_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104521_20200212T104542_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200212T104546_20200212T104727_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104736_20200212T104740_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104747_20200212T104809_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104822_20200212T104830_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200212T104834 20200212T104837 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T104840_20200212T104914_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T112040_20200212T112339_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T112446_20200212T113625_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T114210_20200212T114435_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T115106_20200212T120609_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T120749_20200212T122306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T122341_20200212T122356_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T122401_20200212T122408_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T122412_20200212T122932_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T124442_20200212T124756_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T125315_20200212T125815_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T135357_20200212T135438_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T140049_20200212T140104_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T140108_20200212T140109_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T140112_20200212T140414_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T142151_20200212T143025_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T143028_20200212T143036_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T143038_20200212T145643_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T150913_20200212T153728_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T153731_20200212T153910_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T153959_20200212T154324_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T160356_20200212T160625_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T164835_20200212T170940_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T171005_20200212T171421_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T171429_20200212T171521_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T171644_20200212T171750_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T171938_20200212T172055_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T172507_20200212T172549_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T183943_20200212T184418_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFFL SIR LRM 1B 20200212T184443 20200212T185130 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T185314_20200212T185508_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T185515_20200212T185601_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200212T185859_20200212T185927_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223607_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223711_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224030_20200212T224040_D001 CS_OFFL_SIR_LRM_1B_20200212T2240406_20200212T2224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224055_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_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223632_D001 CS_OFFL_SIR_LRM_1B_20200212T223637_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223709_D001 CS_OFFL_SIR_LRM_1B_20200212T223640_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224030_20200212T224040_D001 CS_OFFL_SIR_LRM_1B_20200212T224046_20200212T224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T2225347_D001 CS_OFFL_SIR_LRM_1B_20200212T225551_20200212T225347_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_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223632_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223711_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T223711_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224040_202012T2224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224051_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224051_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T2224051_D001 CS_OFFL_SIR_LRM_1B_20200212T224055_20200212T223347_D001 CS_OFFL_SIR_LRM_1B_20200212T22405551_20200212T223347_D001 CS_OFFL_SIR_LRM_1B_20200212T225551_20200212T2233800_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_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223632_D001 CS_OFFL_SIR_LRM_1B_20200212T223604_20001 CS_OFFL_SIR_LRM_1B_20200212T223604_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224030_20200212T224040_D001 CS_OFFL_SIR_LRM_1B_20200212T224046_20200212T224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T22405551_20200212T225347_D001 CS_OFFL_SIR_LRM_1B_20200212T22405551_20200212T2233800_D001 CS_OFFL_SIR_LRM_1B_20200212T223736_20200212T2233800_D001 CS_OFFL_SIR_LRM_1B_20200212T233707_20200212T233800_D001 CS_OFFL_SIR_LRM_1B_20200212T233707_20200212T233800_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_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223632_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223711_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T223711_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224040_202012T2224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224051_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T2224055_D001 CS_OFFL_SIR_LRM_1B_20200212T22405551_20200212T225347_D001 CS_OFFL_SIR_LRM_1B_20200212T225551_20200212T2233800_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_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223456_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223632_D001 CS_OFFL_SIR_LRM_1B_20200212T223604_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224030_20200212T224040_D001 CS_OFFL_SIR_LRM_1B_20200212T224046_20200212T224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T22405551_20200212T2233800_D001 CS_OFFL_SIR_LRM_1B_20200212T223736_20200212T2233800_D001 CS_OFFL_SIR_LRM_1B_20200212T223736_20200212T233800_D001 CS_OFFL_SIR_LRM_1B_20200212T233907_20200212T233800_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_20200212T202935_20200212T203407_D001 CS_OFFL_SIR_LRM_1B_20200212T205608_20200212T205706_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T205959_20200212T213227_D001 CS_OFFL_SIR_LRM_1B_20200212T215024_20200212T220254_D001 CS_OFFL_SIR_LRM_1B_20200212T223436_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223451_20200212T223448_D001 CS_OFFL_SIR_LRM_1B_20200212T223501_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223531_20200212T223530_D001 CS_OFFL_SIR_LRM_1B_20200212T223533_20200212T223546_D001 CS_OFFL_SIR_LRM_1B_20200212T223548_20200212T223604_D001 CS_OFFL_SIR_LRM_1B_20200212T223608_20200212T223632_D001 CS_OFFL_SIR_LRM_1B_20200212T223637_20200212T223642_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223707_D001 CS_OFFL_SIR_LRM_1B_20200212T223644_20200212T223719_D001 CS_OFFL_SIR_LRM_1B_20200212T224030_20200212T224040_D001 CS_OFFL_SIR_LRM_1B_20200212T2240406_20200212T224047_D001 CS_OFFL_SIR_LRM_1B_20200212T224051_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T224055_D001 CS_OFFL_SIR_LRM_1B_20200212T224054_20200212T223347_D001 CS_OFFL_SIR_LRM_1B_20200212T224055_20200212T2233800_D001 CS_OFFL_SIR_LRM_1B_20200212T223736_20200212T233800_D001 CS_OFFL_SIR_LRM_1B_20200212T233907_20200212T233800_D001 CS_OFFL_SIR_LRM_1B_20200212T233907_20200212T2334125_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20200212T074832_20200212T074839_D001	Cal1 correction from IPFDB	The Cal1 correction has been taken from the IPFDB and not the Calibration products

4.6 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20200212T074832_20200212T074839_D001	Cal1 Correction missing,	The Cal1 Correction has not been applied

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

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: 56

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200212T002738_20200212T002930_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_220200212T003509_20200212T003933_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_220200212T004056_20200212T004802_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_220200212T011312_20200212T011325_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200212T012010_20200212T012159_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_220200212T012405_20200212T014129_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_220200212T015435_20200212T021945_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_20200212T025515_20200212T032111_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_20200212T033342_20200212T040152_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_20200212T043315_20200212T045353_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_20200212T045407_20200212T050044_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_20200212T051252_20200212T054754_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_220200212T060219_20200212T060303_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_20200212T063132_20200212T064017_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_20200212T071809_20200212T072729_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_20200212T072934_20200212T072945_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20200212T075935_20200212T080419_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_20200212T080606_20200212T081925_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_220200212T083210_20200212T083804_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_20200212T083814_20200212T085956_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_20200212T101829_20200212T102941_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_20200212T103151_20200212T103951_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_220200212T110640_20200212T111631_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_220200212T112446_20200212T113625_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_220200212T115106_20200212T120609_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_220200212T120749_20200212T122306_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_220200212T124204_20200212T124319_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200212T124442_20200212T124756_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_220200212T124826_20200212T125152_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_220200212T125315_20200212T125815_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_220200212T130024_20200212T131724_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_220200212T133053_20200212T135317_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_220200212T140602_20200212T140707_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_220200212T143038_20200212T145643_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_220200212T150913_20200212T153728_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavail	#N/A
CS_OFFL_SIR_LRM_220200212T160356_20200212T160625_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_220200212T160751_20200212T163605_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_220200212T164835_20200212T170940_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_220200212T171005_20200212T171421_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_220200212T173939_20200212T181445_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_220200212T191950_20200212T192829_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_220200212T193115_20200212T195343_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_20200212T200618_20200212T201946_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_20200212T202133_20200212T202851_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_20200212T202935_20200212T203407_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_220200212T205608_20200212T205706_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200212T205959_20200212T213227_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_220200212T215024_20200212T220254_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_20200212T220302_20200212T222036_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_20200212T223533_20200212T223546_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200212T224146_20200212T225347_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_20200212T225551_20200212T231139_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_220200212T232736_20200212T233800_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_220200212T234419_20200212T235532_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_20200212T235728_20200212T235908_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_SIN_2_20200212T074832_20200212T074839_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