

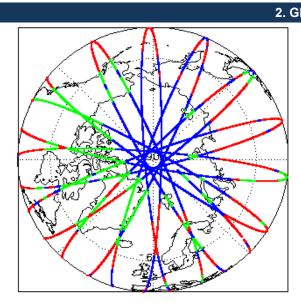
QA4EO Daily Report for OFFLINE data:

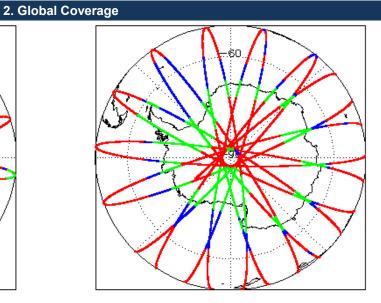
<u>13/05/2020</u>

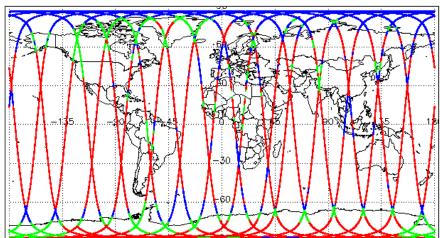
1. Overview

Report Production Date:	12-Jun-2020	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Star Tracker Usage Check	Nominal	
		L1B Tracking Flag Check	See Section 4.4	
		L1B Calibration Usage Check	Nominal	
		L1B & L2 Auxiliary Data File Usage Check	Nominal	
		L1B & L2 Auxiliary Correction Error Check	Nominal	
		L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5	

Mission / Instrument News		
12-May-2020	None	
13-May-2020	None	
14-May-2020	SIRAL unavailability on 14-May-2020 from 15:39:01 to 16:37:10 due to a planned orbit manoeuvre.	







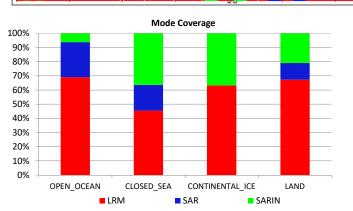
 Mode Coverage (%)

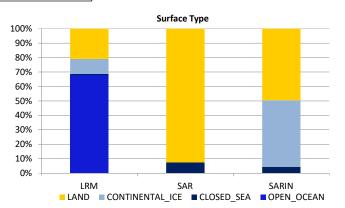
 LRM
 67.9

 SAR
 19.2

SARIn

12.9





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:

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:

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.

96

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200513T000436_20200513T000808_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T000841_20200513T000952_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T001033_20200513T001053_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T001058_20200513T001102_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T001105_20200513T001134_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T001138_20200513T003137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T004231_20200513T005033_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T014229_20200513T014304_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T014611_20200513T014916_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T014938_20200513T014951_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T014953_20200513T015027_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T015604_20200513T015746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T015931_20200513T020044_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T020048_20200513T020140_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T020246_20200513T020336_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T020339_20200513T020710_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T030915_20200513T030954_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T032906_20200513T033046_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T033118_20200513T033141_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T033145_20200513T033616_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T033826_20200513T034426_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T041321_20200513T043936_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T044739_20200513T044947_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T054334_20200513T054528_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T055714_20200513T061915_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T062317_20200513T062934_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T064244_20200513T065833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T070109_20200513T070347_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T070453_20200513T071556_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T072212_20200513T072446_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T074757_20200513T075040_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T075506_20200513T080230_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T080232_20200513T080303_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T080329_20200513T080934_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T082448_20200513T083120_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T083322_20200513T085702_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T091121_20200513T093456_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T093824_20200513T093919_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T094051_20200513T094442_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T095939_20200513T100034_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200513T100156_20200513T101047_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OF_L_SRL_EM_18_20200513T101048_20200513T10354_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T10364_20200513T10354_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T10364_20200513T110240_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T12080_20200513T12240_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T12080_20200513T12240_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T12080_20200513T12240_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T12080_20200513T120350_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T12085_20200513T103054_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T142272_20200513T14030_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T14320_20200513T14307_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T14320_20200513T14307_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T14320_20200513T14307_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T14304_20200513T14304_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T16318_20200513T14304_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T16341_20200513T16324_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T16342_20200513T16342_D001 Loss of exho CS_OFE_LSRL_EM_18_20200513T16342_20200513T16342_D001 Loss of exho		l
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CS_OFFL_SIR_LRM_18_20200513T125335_20200513T125556_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T125555_20200513T125555_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T125555_20200513T1305546_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142227_20200513T142547_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142227_20200513T143494_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T143281_20200513T143494_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163595_02000513T163640_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163956_02000513T163640_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163956_02000513T17020_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163956_02000513T171292_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163956_02000513T1714392_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181541_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_0200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_0200513T181540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181540_20200513T181540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181540_20200513T181540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181540_20200513T180540_D001 <td< td=""><td>CS_OFFL_SIR_LRM_1B_20200513T112308_20200513T112524_D001</td><td>Loss of echo</td></td<>	CS_OFFL_SIR_LRM_1B_20200513T112308_20200513T112524_D001	Loss of echo
CS_OFFL_SIR_LRM_18_20200513T12565_20200513T130253_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T132535_20200513T130253_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142227_20200513T130253_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142227_20200513T143047_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T14332_020200513T143051_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T153232_0200513T163254_0001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163549_20200513T163249_0001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163549_20200513T163549_0001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163616_20200513T163549_0001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163614_20200513T16311402_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161514_20200513T161511_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161548_20200513T161514_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161548_20200513T161644_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161548_20200513T161541_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161548_20200513T161540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161548_20200513T161540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161548_20200513T16350_D001 <td< td=""><td>CS_OFFL_SIR_LRM_1B_20200513T123659_20200513T125245_D001</td><td>Loss of echo</td></td<>	CS_OFFL_SIR_LRM_1B_20200513T123659_20200513T125245_D001	Loss of echo
CS_OFFL_SIR_LRM_18_20200513T132635_20200513T130254_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142722_20200513T14304_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142722_20200513T14304_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142722_20200513T14304_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T143841_20200513T143054_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163546_20200513T163251_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163646_20200513T163264_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163645_20200513T174202_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T164543_20200513T174302_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161643_20200513T16111_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161614_20200513T161614_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161614_20200513T161614_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161617_20200513T161614_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161614_20200513T161614_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161614_20200513T161614_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161614_20200513T161614_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T161614_20200513T161616_D001 Lo	CS_OFFL_SIR_LRM_1B_20200513T125335_20200513T125510_D001	Loss of echo
CS_OFFL_SIR_LRM_18_20200513T130518_20200513T130546_0001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T142227_20200513T142647_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T143222_20200513T14304_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T143320_20200513T14304_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T153259_20200513T163049_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T153595_20200513T163049_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T153659_20200513T163049_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T163645_20200513T171027_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T171304_20200513T1714302_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181647_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181541_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_0200513T181540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_0200513T181540_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_0200513T181501_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181507_02000513T181501_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181507_02000513T181501_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T18057_20001 Loss of echo	CS_OFFL_SIR_LRM_1B_20200513T125651_20200513T125755_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200513T14227_20200513T142647_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T14320_20200513T143080_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T14320_20200513T143080_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T15289_00200513T163251_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163616_20200513T163649_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163616_20200513T163649_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T164543_20200513T1712219_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16451_20200513T174020_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16151_20200513T16151_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161512_02000513T16154_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16154_20200513T16154_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16154_20200513T16154_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161542_20200513T16154_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161542_20200513T16350_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16360_02000513T163620_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16262_0200513T163620_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T162620_2000513T169620_0001 Loss of echo <td>CS_OFFL_SIR_LRM_1B_20200513T125935_20200513T130253_D001</td> <td>Loss of echo</td>	CS_OFFL_SIR_LRM_1B_20200513T125935_20200513T130253_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200513T14272_20200513T143604_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T14384_20200513T143604_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T14384_20200513T163650_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163656_0200513T163646_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163656_0200513T17219_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T164543_20200513T172219_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T164543_20200513T174302_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181644_20200513T181511_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181644_20200513T181641_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181648_20200513T181641_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181648_20200513T181610_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181642_20200513T181610_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181642_20200513T180357_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T182013_20200513T180357_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T192013_20200513T192046_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T192013_20200513T192045_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T192032_20200513T192045_0001 Loss	CS_OFFL_SIR_LRM_1B_20200513T130518_20200513T130546_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200513T143841_20200513T143840_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T143841_20200513T16055_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163123_20200513T16055_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T1631616_20200513T16055_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161642_20200513T17207_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T1719102000513T171207_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161513_20200513T16151_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161513_20200513T161541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161542_20200513T16154_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161642_20200513T16154_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161642_20200513T16155_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161642_20200513T161505_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161642_20200513T161505_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T161642_20200513T162052_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16242_20200513T162052_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16242_20200513T162054_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T162054_20200513T16920_D001 Loss of ec	CS_OFFL_SIR_LRM_1B_20200513T142227_20200513T142647_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200513T143841_20200513T153251_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T153295_20200513T163649_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T155959_20200513T163649_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T164543_20200513T17027_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T173034_20200513T17207_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T173034_20200513T174032_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181447_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181644_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181642_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181642_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181894_20200513T181540_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181894_20200513T18500_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19370_20200513T18500_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19370_20200513T193620_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193721_20200513T193820_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193724_20200513T19387_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193204_20200513T194502_D001 Loss	CS_OFFL_SIR_LRM_1B_20200513T142722_20200513T143137_D001	Loss of echo
GS_OFFL_SIR_LRM_1B_20200513T15123_20200513T163255_0001 Loss of echo GS_OFFL_SIR_LRM_1B_20200513T163616_20200513T163649_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163616_20200513T172219_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T164543_20200513T172219_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T164543_20200513T172219_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T16151_20200513T161514_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181514_20200513T181544_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181542_20200513T181544_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181641_20200513T18154_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181641_20200513T18193_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18164_20200513T1819357_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181703_020200513T189362_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19212_0200513T199204_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19221_20200513T193810_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19345_20200513T193852_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19555_20200513T193552_0001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T219452_20200513T210452_0001 Loss o	CS_OFFL_SIR_LRM_1B_20200513T143320_20200513T143604_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200613T169595_20200513T163649_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T163616_20200513T17307_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T171451_20200513T172219_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T171447_20200513T174302_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181447_20200513T181611_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181644_20200513T181644_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181644_20200513T181644_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181644_20200513T181644_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181647_20200513T181644_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181647_20200513T181644_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181647_20200513T18055D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18030_20200513T18035D1D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18201_20200513T192046_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T192012_20200513T19385D_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193262_20200513T193852_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193262_20200513T193852_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T219326_20200513T219352_D011 Los	CS_OFFL_SIR_LRM_1B_20200513T143841_20200513T144009_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200513T163616_20200513T17207_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T171951_20200513T172219_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T170304_20200513T174302_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181447_20200513T181511_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181542_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181544_20200513T181544_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T1815426_20200513T18191614_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T1815426_20200513T181931_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18192421_20200513T181931_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181930_20200513T1819357_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18201_20200513T192046_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T19203_20200513T193620_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193202_000513T193620_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193262_0200513T193620_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193625_2000513T193652_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T195865_20200513T193652_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T195865_20200513T203707_D001 <t< td=""><td>CS_OFFL_SIR_LRM_1B_20200513T151123_20200513T153251_D001</td><td>Loss of echo</td></t<>	CS_OFFL_SIR_LRM_1B_20200513T151123_20200513T153251_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200513T164542_20200513T171207_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T17034_20200513T174302_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181541_20200513T181511_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18154120200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T1815420200513T181544_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181544_20200513T181544_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T1815420200513T181631_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181690_20200513T181630_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T181634_20200513T1812052_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T18030_20200513T1812052_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T192013_20200513T1912046_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T192013_20200513T193262_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193428_20200513T19348_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193452_20200513T193552_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T193526_20200513T193552_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T219354_20200513T195552_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200513T2121064_20200513T210852_D001 Lo	CS_OFFL_SIR_LRM_1B_20200513T155959_20200513T160859_D001	Loss of echo
ICS_OFFL_SIR_LRM_18_20200513T17152120200513T172219_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T173034_20200513T174302_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181447_20200513T181511_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181513_20200513T181541_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_20200513T181544_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181542_20200513T181544_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181617_20200513T181551_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T181934_20200513T181501_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T1802421_20200513T18357_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T190730_20200513T182040_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T190730_2020513T19948_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T190730_2020513T199852_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T193845_20200513T193852_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T196805_20200513T193957_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T196805_20200513T20352_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T210801_D001 Loss of echo CS_OFFL_SIR_LRM_18_20200513T210804_20200513T210807_D001 Loss of echo	CS_OFFL_SIR_LRM_1B_20200513T163616_20200513T163649_D001	Loss of echo
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4.5 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing. 0

Number of products with errors:

4.6 L1B Auxilary Data File Usage Check

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

0

4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.8 L1B Measurement Confidence Data Check

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

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

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

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration. Number of products with errors: 0

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 guality 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.

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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_220200513T001138_20200513T003137_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_220200513T005411_20200513T012743_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_220200513T023356_20200513T025531_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_20200513T025816_20200513T030740_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_220200513T033826_20200513T034426_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_20200513T034613_20200513T035711_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_220200513T041321_20200513T043936_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_220200513T044326_20200513T044617_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_220200513T050228_20200513T050921_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_20200513T050938_20200513T053358_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_220200513T055714_20200513T061915_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_220200513T064244_20200513T065833_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220200513T070453_20200513T071556_D001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220200513T073204_20200513T074618_D001	(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_220200513T074757_20200513T075040_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_220200513T082154_20200513T082249_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200513T082448_20200513T083120_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_220200513T083322_20200513T085702_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_220200513T091121_20200513T093456_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_220200513T101106_20200513T103551_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_220200513T105042_20200513T111544_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_220200513T114335_20200513T121508_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_220200513T122856_20200513T123619_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_220200513T123659_20200513T125245_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_220200513T125335_20200513T125510_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_220200513T131955_20200513T135342_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_220200513T142227_20200513T142647_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_220200513T145952_20200513T150837_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_220200513T151123_20200513T153251_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_220200513T154815_20200513T155956_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_220200513T155959_20200513T160859_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_20200513T160955_20200513T161400_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_220200513T161922_20200513T162241_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_20200513T164009_20200513T164404_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_220200513T164543_20200513T171207_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_220200513T173034_20200513T174302_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_220200513T174341_20200513T180042_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_220200513T182421_20200513T183357_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_220200513T183601_20200513T185101_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_220200513T190730_20200513T191948_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_220200513T192428_20200513T193620_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_220200513T193845_20200513T193957_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200513T195855_20200513T200352_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200513T201523_20200513T203012_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_220200513T204441_20200513T210801_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_20200513T210804_20200513T211056_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20200513T222346_20200513T225205_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records