



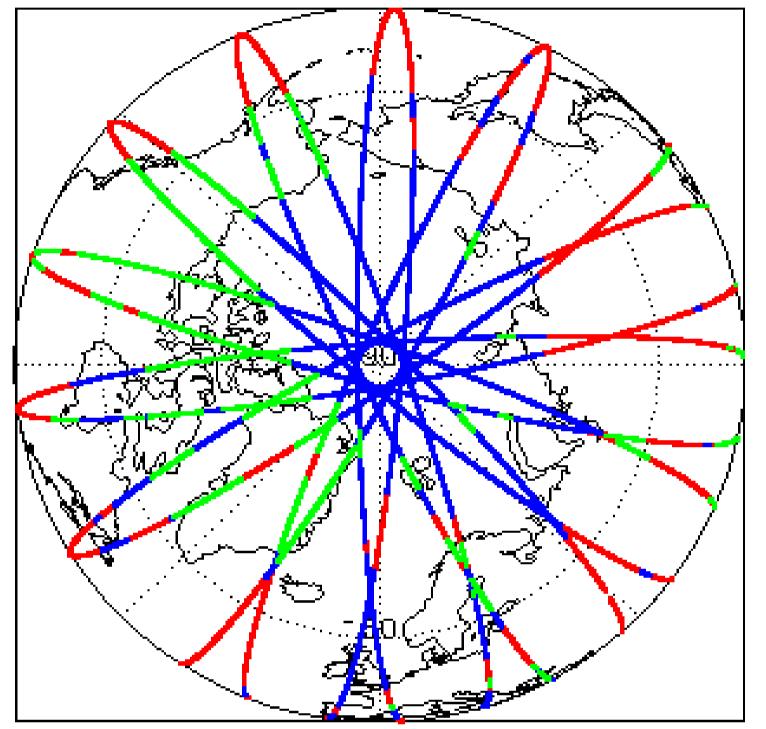
# 1. Overview

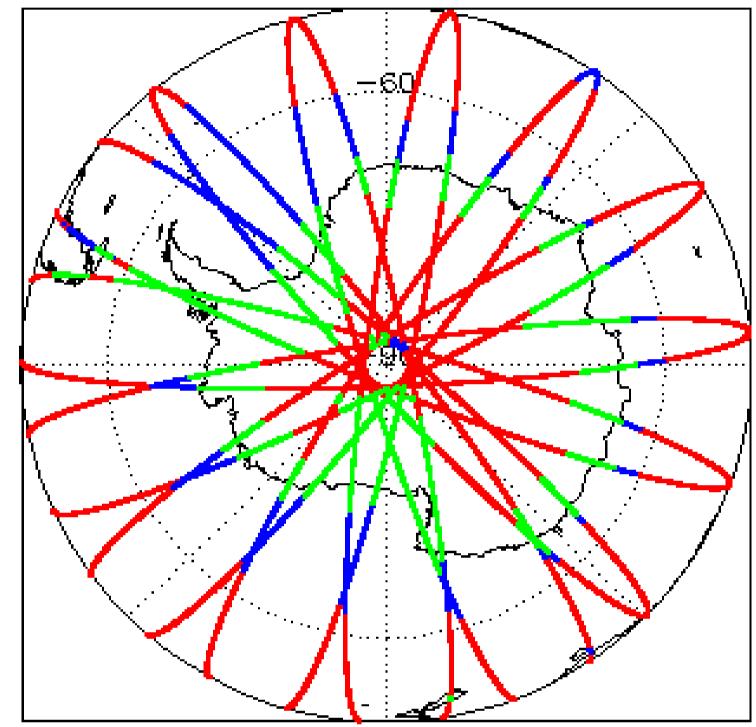
<b>Report Production Date:</b>	09-Jun-2021	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

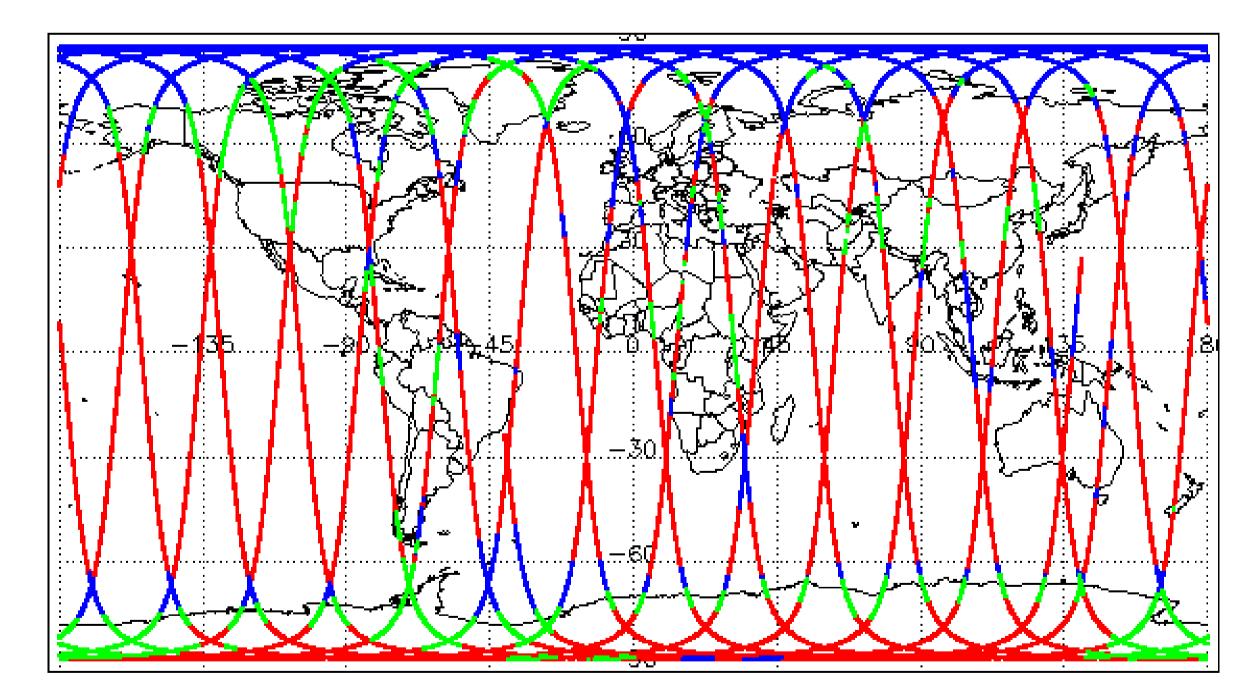
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check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

Mission / Instrument News			
08-May-2021	None		
09-May-2021	None		
10-May-2021	Nothing planned		

# 2. Global Coverage



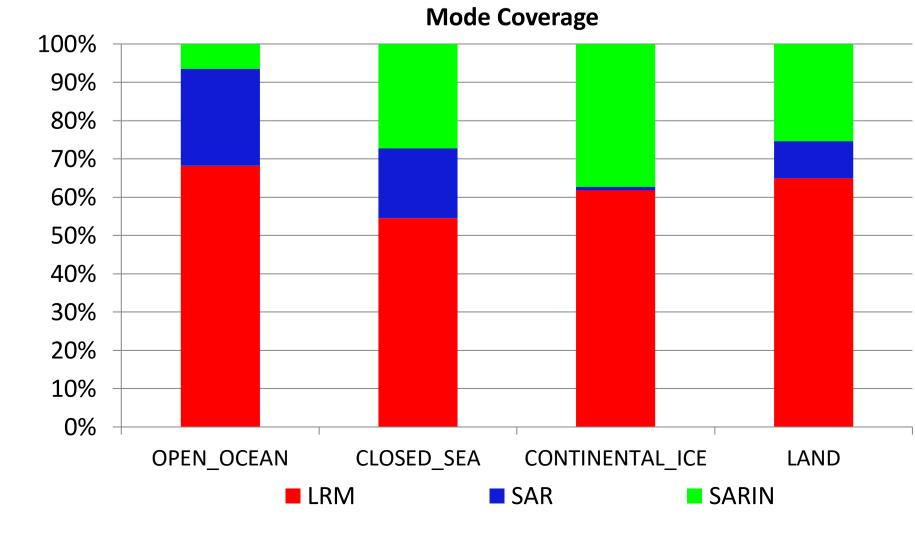


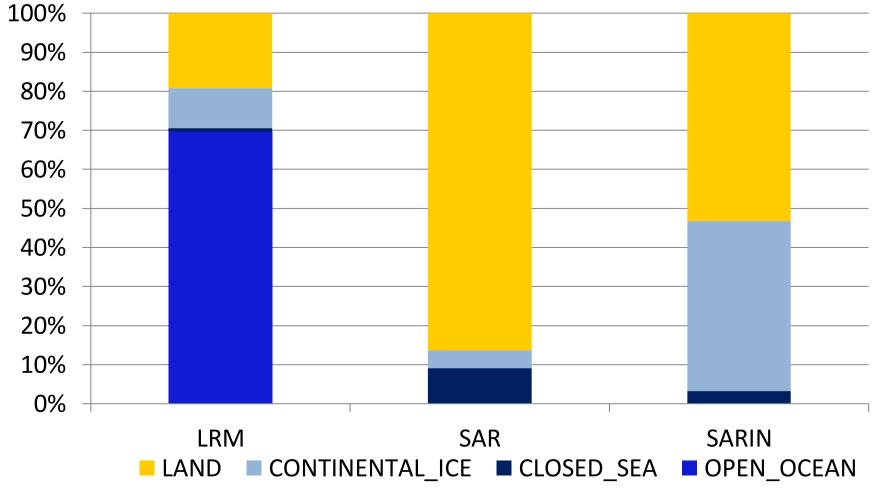




LRM	66.7
SAR	19.5
SARIn	13.8

Surface Type





#### **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 Che	ck		
Each product, retrieved and unpacked from	n the science server, is checked	to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).	
Number of products with errors:	0		
4.2 L1B Product Header Ana	lysis		
For all products, a series of pre-defined che	ecks 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 Chec	k		
Each product is checked in order to ensure	a valid star tracker file has beer	used in processing.	
Number of products with errors:	0		
4.4 L1B Tracking Flags Chec	k		
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:

104

**Test Failed** Description Product CS\_OFFL\_SIR\_LRM\_1B\_20210509T000658\_20210509T000744\_D001 The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T000748\_20210509T000752\_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T000756\_20210509T002419\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T004128\_20210509T005514\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T011047\_20210509T011147\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T012627\_20210509T013436\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T013700\_20210509T014718\_D001 The tracking echo is missing for one or more records Loss of echo Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T022311\_20210509T023310\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T023555\_20210509T024108\_D001 The tracking echo is missing for one or more records Loss of echo Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T024352\_20210509T024527\_D001 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\_20210509T024529\_20210509T025046\_D001 Loss of echo Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T030449\_20210509T031141\_D001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T031143\_20210509T031216\_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T031218\_20210509T031252\_D001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T031255\_20210509T031311\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T031339\_20210509T031425\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T035642\_20210509T042150\_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T042153\_20210509T042156\_D001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T042159\_20210509T042208\_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T042210\_20210509T042359\_D001 The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T042401\_20210509T042410\_D001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T042412\_20210509T042504\_D001 The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T042746\_20210509T042916\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T044812\_20210509T045342\_D001 Loss of echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_LRM\_1B\_20210509T045414\_20210509T045442\_D001 Loss of echo The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T045636\_20210509T052209\_D001 The tracking echo is missing for one or more records The tracking echo is missing for one or more records Loss of echo CS\_OFFL\_SIR\_LRM\_1B\_20210509T052923\_20210509T053250\_D001 Loss of echo The tracking echo is missing for one or more records

CS\_OFFL\_SIR\_LRM\_1B\_20210509T062621\_20210509T062934\_D001

CS_OFFL_SIR_LRM_1B_20210509T063152_20210509T063200_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T063202_20210509T063200_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T063202_20210509T063214_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T063217_20210509T063939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T063943_20210509T064426_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T064429_20210509T065056_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T064429_20210509T070951_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T080823_20210509T080959_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081038_20210509T081125_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081246_D010_20210509T08125_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR	CS_OFFL_SIR_LRM_1B_20210509T063007_20210509T063149_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T063202_20210509T063214_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T063217_20210509T063939_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T063943_20210509T064426_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T064429_20210509T064426_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T064429_20210509T065056_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T070404_20210509T070951_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T080823_20210509T080959_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081038_20210509T081125_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM	CS_OFFL_SIR_LRM_1B_20210509T063152_20210509T063154_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210509T080823_20210509T080959_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081038_20210509T081125_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210509T064429_20210509T065056_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001Loss of echoThe tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210509T080823_20210509T080959_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210509T081038_20210509T081125_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210509T081446_20210509T081550_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T093007_20210509T093125_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20210509T082100_20210509T082436_D001	Loss of echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_LRM_1B_20210509T093007_20210509T093125_D001	Loss of echo	The tracking echo is missing for one or more records

CS\_OFFL\_SIR\_LRM\_1B\_20210509T095035\_20210509T095206\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T095321\_20210509T095402\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T095405\_20210509T095802\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T095851\_20210509T095914\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T095940\_20210509T101849\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T103454\_20210509T110729\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T110857\_20210509T110925\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T110928\_20210509T110935\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T110938\_20210509T111002\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T111008\_20210509T111121\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T114303\_20210509T115554\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T120500\_20210509T120656\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T120838\_20210509T121200\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T121355\_20210509T122922\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T124429\_20210509T125109\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T130723\_20210509T132005\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T132343\_20210509T132419\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T132446\_20210509T132604\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T132609\_20210509T133210\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T133219\_20210509T133258\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T134328\_20210509T134620\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T141641\_20210509T141757\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T141903\_20210509T142028\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T142030\_20210509T142426\_D001 CS\_OFFL\_SIR\_LRM\_1B\_20210509T142448\_20210509T143057\_D001

The tracking echo is missing for one or more records 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 Loss of echo Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records Loss of echo Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records Loss of echo Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records Loss of echo Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records Loss of echo The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20210509T144623_20210509T145212_D001
CS_OFFL_SIR_LRM_1B_20210509T145456_20210509T151833_D001
CS_OFFL_SIR_LRM_1B_20210509T152132_20210509T153004_D001
CS_OFFL_SIR_LRM_1B_20210509T153303_20210509T155759_D001
CS_OFFL_SIR_LRM_1B_20210509T160151_20210509T160235_D001
CS_OFFL_SIR_LRM_1B_20210509T160255_20210509T160623_D001
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CS_OFFL_SIR_LRM_1B_20210509T162931_20210509T162957_D001
CS_OFFL_SIR_LRM_1B_20210509T163000_20210509T163146_D001
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CS_OFFL_SIR_LRM_1B_20210509T173848_20210509T174118_D001
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CS_OFFL_SIR_LRM_1B_20210509T174419_20210509T174648_D001
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CS_OFFL_SIR_LRM_1B_20210509T192208_20210509T192357_D001
CS_OFFL_SIR_LRM_1B_20210509T192642_20210509T192704_D001
CS_OFFL_SIR_LRM_1B_20210509T194153_20210509T201530_D001
CS_OFFL_SIR_LRM_1B_20210509T205112_20210509T205738_D001
CS_OFFL_SIR_LRM_1B_20210509T205901_20210509T205912_D001
CS_OFFL_SIR_LRM_1B_20210509T205922_20210509T210103_D001
CS OFEL SID LOW 10 202105007212111 202105007214000 D001

CS_OFFL_SIR_LRM_1B_20210509T144623_20210509T145212_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T145456_20210509T151833_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T152132_20210509T153004_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T153303_20210509T155759_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T160151_20210509T160235_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T160255_20210509T160623_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T162330_20210509T162731_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T162931_20210509T162957_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T163000_20210509T163146_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T163148_20210509T163200_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T171203_20210509T173649_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T173652_20210509T173837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T173841_20210509T173845_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T173848_20210509T174118_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T174206_20210509T174419_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T174419_20210509T174648_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T190134_20210509T190535_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T191105_20210509T191649_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T191946_20210509T191953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T192040_20210509T192208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T192208_20210509T192357_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T192642_20210509T192704_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T194153_20210509T201530_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T205112_20210509T205738_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T205901_20210509T205912_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T205922_20210509T210103_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T212111_20210509T214908_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T214918_20210509T215422_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T220212_20210509T220626_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T225734_20210509T225742_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T225745_20210509T225747_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T225752_20210509T225755_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T225758_20210509T225800_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T225802_20210509T225858_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T231623_20210509T232029_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T232149_20210509T232658_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T232726_20210509T233346_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20210509T234124_20210509T234337_D001	Loss of echo	The tracking echo is missing for one or more records

4.5 L1B Calibration Usage Check				
Each product is checked in order to ensure that the necessary calibration files have been used in processing.				
Number of products with errors: 0				
4.6 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to chec	k 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 measurem	nent record. The bit value of this flag inc	licates any problems when set.		
Number of products with errors: 0				
4.8 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag (field 18) for each r	measurement record. The bit value of t	his 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: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_LRM_1B_20210509T004128_20210509T005514_D001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set indicating a degraded echo		
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: 0			
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: 0			
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.			
Con A mer polation error. This hag is currently set for a number of OAR products occurring at surface type boundaries, but this is to be expected.			

Product	Test Failed	Description

CS_OFFL_SIR_LRM_220210508T235407_20210509T000217_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_220210509T000658_20210509T000744_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_220210509T000756_20210509T002419_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_220210509T004128_20210509T005514_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_220210509T005754_20210509T011021_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_220210509T011047_20210509T011147_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210509T012627_20210509T013436_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210509T013700_20210509T014718_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_220210509T014858_20210509T020312_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_220210509T021919_20210509T022051_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_220210509T022311_20210509T023310_D001		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220210509T023555_20210509T024108_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_220210509T031958_20210509T034204_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_220210509T035642_20210509T042150_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_220210509T044610_20210509T044649_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_220210509T045636_20210509T052209_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_220210509T053622_20210509T060941_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_220210509T063217_20210509T063939_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_220210509T064429_20210509T065056_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_220210509T071555_20210509T074926_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_220210509T080243_20210509T080336_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_220210509T081038_20210509T081125_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_220210509T082456_20210509T082643_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_220210509T085509_20210509T091700_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_220210509T091944_20210509T092918_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_220210509T095035_20210509T095206_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_220210509T095940_20210509T101849_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_220210509T103454_20210509T110729_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_220210509T112339_20210509T114243_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_220210509T114303_20210509T115554_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_220210509T121355_20210509T122922_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_220210509T123125_20210509T124059_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_220210509T130327_20210509T130539_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_220210509T130723_20210509T132005_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_220210509T141903_20210509T142028_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210509T142030_20210509T142426_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210509T142448_20210509T143057_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220210509T144623_20210509T145212_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_220210509T145456_20210509T151833_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_220210509T153303_20210509T155759_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_220210509T160746_20210509T160811_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_220210509T163202_20210509T165723_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_220210509T171203_20210509T173649_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_220210509T180432_20210509T183620_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_220210509T191105_20210509T191649_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_220210509T192750_20210509T192845_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_220210509T194153_20210509T201530_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_220210509T203018_20210509T204834_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_220210509T205112_20210509T205738_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_220210509T212111_20210509T214908_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_220210509T214918_20210509T215422_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_220210509T221005_20210509T223555_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_220210509T224413_20210509T224454_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_220210509T230031_20210509T230339_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_220210509T230400_20210509T231516_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_220210509T231623_20210509T232029_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_220210509T232149_20210509T232658_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_220210509T232726_20210509T233346_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_220210509T235214_20210510T000440_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 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	169	169	169	0	0
SIR_SAR_1B	116	116	116	0	0
SIR_SIN_1B	107	107	107	0	0
SIR_LRM_2	169	169	164	5	0
SIR_SAR_2	107	115	115	0	0
SIR_SIN_2	115	107	107	0	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	-	-	-	-
SIR_GDR_2_	14	14	14	14	14	14	14	-			

Test Description Key:	est 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)				

#### 6.2 QCC Warnings

Number of QCC reports with warnings

5

0

Total number of occurrences of each warning

Product Type	AXSMMEOCI	-	-	-	-	-	-
SIR_LRM_2_	5						

Test Description Key:					
Abbreviation	Test name	Details			
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice			

### 6.2 Missing QCC Reports

Number of products with missing QCC reports: