



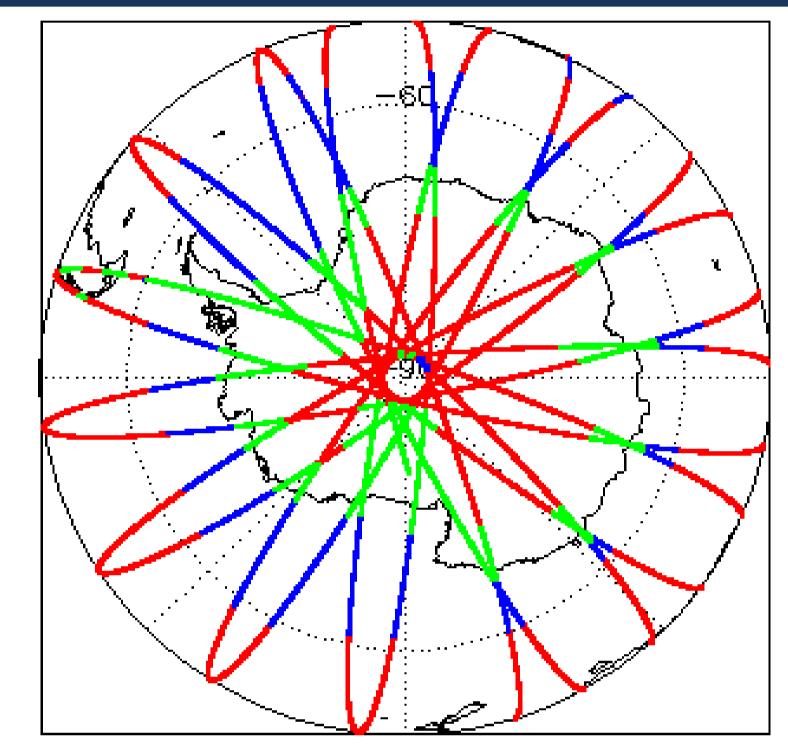
1. Overview

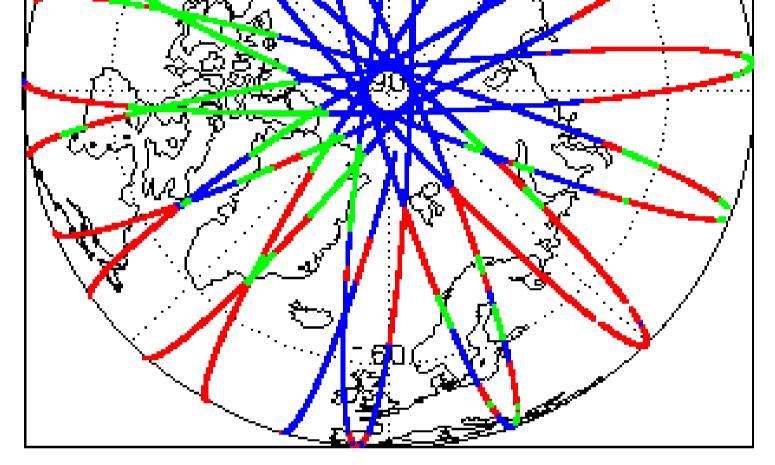
Report Production Date:	03-Sep-2020
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

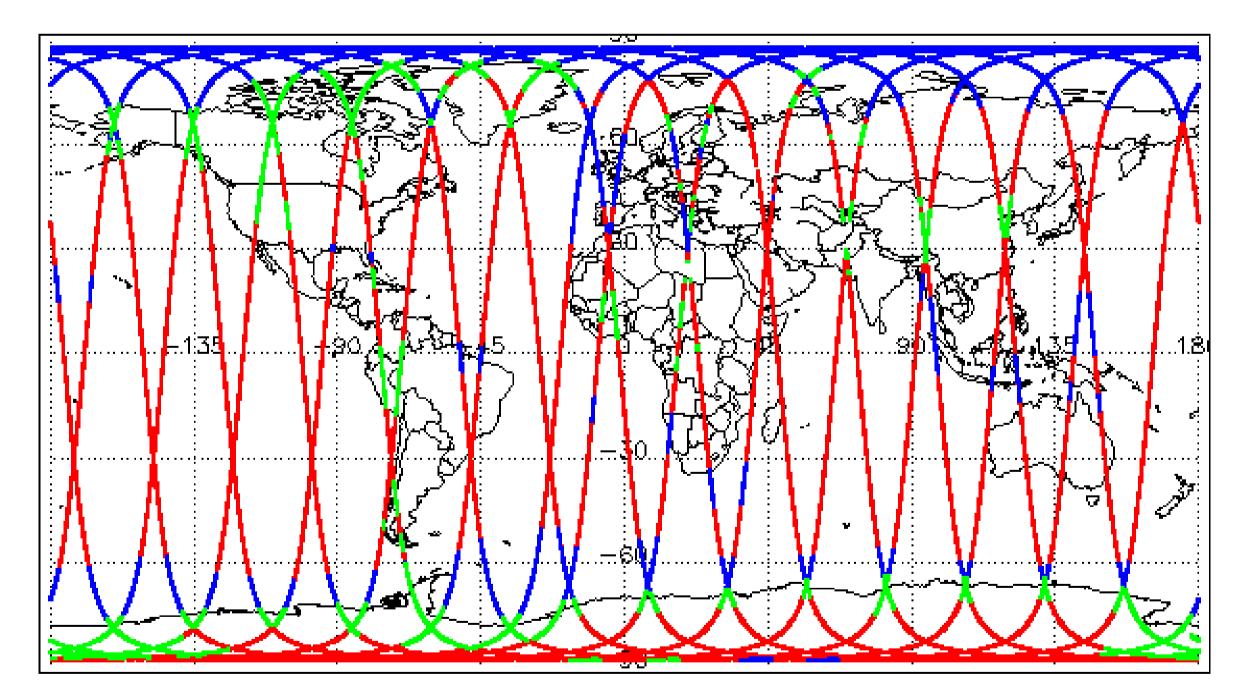
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	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 / Instru	ument News
04-Aug-2020	None
05-Aug-2020	None
06-Aug-2020	Nothing planned

2. Global Coverage



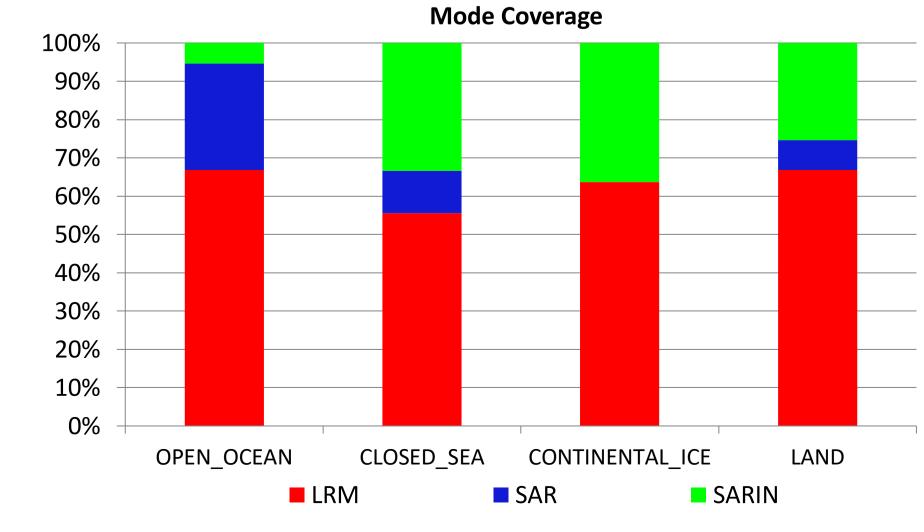


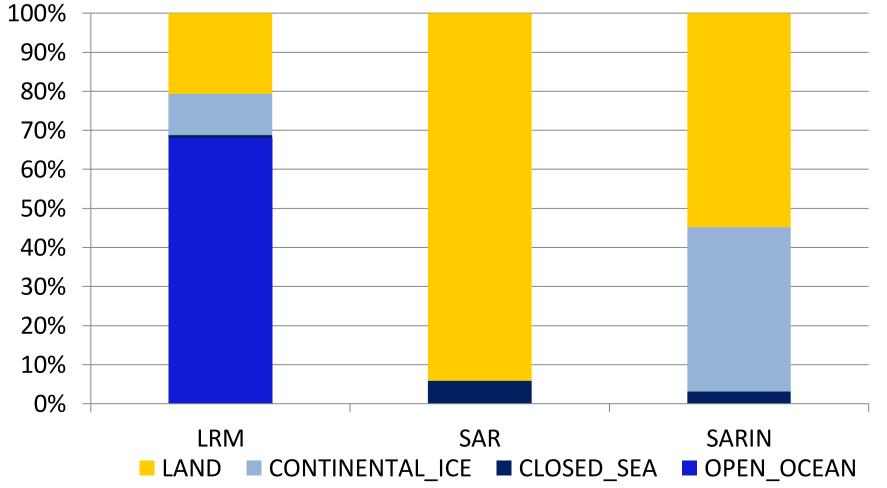




LRM	66.4
SAR	20.5
SARIn	13.1

Surface Type





3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A	
		Level 1B Data Quality Check
4.1 L1B Product Format Chec	;k	
Each product, retrieved and unpacked from	the science server, is checked	to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).
Number of products with errors:	0	
4.2 L1B Product Header Analy	ysis	
For all products, a series of pre-defined che	cks are carried out on the MPH	and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0	
4.3 Star Tracker Usage Check	ζ	
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 Checl	<	
CryoSat L1B data includes a tracking flag fo	r each measurement record. Th	e bit value of this flag indicates any problems when set.
Loss of Echo Flag: This flag is currently se	t for some products over land, k	out this is to be expected.

Number of products with errors:

129

Test Failed Description Product The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200805T004605_20200805T004758_D001 Loss of echo CS_OFFL_SIR_LRM_1B_20200805T005545_20200805T010749_D001 Loss of echo The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200805T010910_20200805T011220_D001	
CS_OFFL_SIR_LRM_1B_20200805T011701_20200805T013126_D001	
CS_OFFL_SIR_LRM_1B_20200805T020315_20200805T021735_D001	
CS_OFFL_SIR_LRM_1B_20200805T022505_20200805T022710_D001	
CS_OFFL_SIR_LRM_1B_20200805T023442_20200805T024750_D001	
CS_OFFL_SIR_LRM_1B_20200805T025128_20200805T025505_D001	
CS_OFFL_SIR_LRM_1B_20200805T025508_20200805T030050_D001	
CS_OFFL_SIR_LRM_1B_20200805T030314_20200805T030315_D001	
CS_OFFL_SIR_LRM_1B_20200805T030318_20200805T030332_D001	
CS_OFFL_SIR_LRM_1B_20200805T030334_20200805T030336_D001	
CS_OFFL_SIR_LRM_1B_20200805T030339_20200805T030545_D001	
CS_OFFL_SIR_LRM_1B_20200805T030547_20200805T031106_D001	
CS_OFFL_SIR_LRM_1B_20200805T032306_20200805T034015_D001	
CS_OFFL_SIR_LRM_1B_20200805T034550_20200805T035417_D001	
CS_OFFL_SIR_LRM_1B_20200805T040305_20200805T041115_D001	
CS_OFFL_SIR_LRM_1B_20200805T043514_20200805T043811_D001	
CS_OFFL_SIR_LRM_1B_20200805T044154_20200805T044237_D001	
CS_OFFL_SIR_LRM_1B_20200805T044306_20200805T044309_D001	
CS_OFFL_SIR_LRM_1B_20200805T044313_20200805T044329_D001	
CS_OFFL_SIR_LRM_1B_20200805T044334_20200805T044343_D001	
CS_OFFL_SIR_LRM_1B_20200805T044346_20200805T044431_D001	
CS_OFFL_SIR_LRM_1B_20200805T044434_20200805T044503_D001	
CS_OFFL_SIR_LRM_1B_20200805T044506_20200805T044513_D001	
CS_OFFL_SIR_LRM_1B_20200805T044515_20200805T045024_D001	
CS_OFFL_SIR_LRM_1B_20200805T050300_20200805T051147_D001	
CS_OFFL_SIR_LRM_1B_20200805T051204_20200805T051601_D001	

Loss of echo
Loss of echo

CS_OFFL_SIR_LRM_1B_20200805T065642_20200805T061626_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T061630_20200805T062713_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T062722_20200805T062713_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T062722_2020805T062828_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064912_2020805T064913_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064918_20200805T064923_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064928_2020805T064936_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064942_2020805T065046_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T065050_20200805T065057_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T065100_2020805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020805T075321_2020805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020805T075937_2020805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020805T075937_2020805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020805	CS_OFFL_SIR_LRM_1B_20200805T054433_20200805T054953_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T062121_20200805T062713_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T062722_20200805T062828_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064912_20200805T064913_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064918_20200805T064923_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064928_20200805T064936_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T064942_20200805T065046_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T065050_20200805T065057_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T065100_20200805T071701_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T073321_20200805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T073321_20200805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T073321_20200805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T073321_20200805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200805T073321_20200805T075935_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LNM	CS_OFFL_SIR_LRM_1B_20200805T055442_20200805T061626_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200805T075937_20200805T080048_D001 Loss of echo The tracking echo is missing for one or more records	CS_OFFL_SIR_LRM_1B_20200805T073321_20200805T075935_D001	Loss of echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_LRM_1B_20200805T080050_20200805T080112_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T080114_20200805T080116_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T080118_20200805T080341_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T080415_20200805T081111_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T091923_20200805T092504_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T092506_20200805T092850_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T092915_20200805T093414_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T093557_20200805T093647_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T094018_20200805T094019_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T094022_20200805T094137_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T094149_20200805T094220_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T094220_20200805T094321_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T094606_20200805T094618_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T111233_20200805T111640_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T111643_20200805T111735_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T111751_20200805T111927_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T111929_20200805T111939_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T113850_20200805T121355_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T131706_20200805T133152_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T133634_20200805T133750_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T133752_20200805T133754_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T133758_20200805T133857_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T134012_20200805T135329_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T141136_20200805T142453_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T142707_20200805T144417_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T145630_20200805T150327_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T150630_20200805T151512_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T151514_20200805T151519_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T151521_20200805T151628_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T151632_20200805T151654_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T155115_20200805T155252_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T155527_20200805T160121_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T160556_20200805T160745_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T160748_20200805T161046_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T161329_20200805T161917_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T163427_20200805T163441_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T163509_20200805T164349_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T164746_20200805T164854_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T171549_20200805T171943_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T172005_20200805T172231_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T172716_20200805T175439_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T175641_20200805T175718_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T175720_20200805T180040_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T180202_20200805T180220_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T181746_20200805T182227_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T182637_20200805T185018_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T185904_20200805T190230_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T195359_20200805T195912_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T200122_20200805T200155_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T200159_20200805T200201_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T200203_20200805T200232_D001	Loss of echo
CS_OFFL_SIR_LRM_1B_20200805T200235_20200805T200247_D001	Loss of echo

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

CS_OFFL_SIR_LRM_1B_20200805T200235_20200805T200247_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T200250_20200805T201017_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T201019_20200805T202218_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T203337_20200805T204137_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T213339_20200805T213423_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T213717_20200805T214025_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T214038_20200805T214134_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T214433_20200805T214525_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T214709_20200805T214850_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T215035_20200805T215145_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T215147_20200805T215155_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T215158_20200805T215307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T215359_20200805T215737_D001	Loss of echo	The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20200805T224924_20200805T230058_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T232012_20200805T232152_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T232224_20200805T232238_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T232240_20200805T232307_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T232309_20200805T232724_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200805T232929_20200805T233531_D001	Loss of echo	The tracking echo is missing for one or more records
Number of products with errors: 0		
4.6 L1B Auxilary Data File Usage Check		
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 c	heck the validity of Auxiliary Data Files is correct.
	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Each product is checked for missing Data Set Descriptors with respect to a pro Number of products with errors: 0	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Each product is checked for missing Data Set Descriptors with respect to a pre-	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Each product is checked for missing Data Set Descriptors with respect to a pro Number of products with errors: 0		

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.

3 Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200805T032306_20200805T034015_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
CS_OFFL_SIR_LRM_1B_20200805T062121_20200805T062713_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
CS_OFFL_SIR_LRM_1B_20200805T163509_20200805T164349_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:

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

0

0

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:

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.

Number of products with errors: 58

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220200805T000144_20200805T000315_D001		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_220200805T001346_20200805T003628_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_220200805T005545_20200805T010749_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_220200805T010910_20200805T011220_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_220200805T011701_20200805T013126_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_220200805T014354_20200805T020125_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_220200805T020315_20200805T021735_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_220200805T023442_20200805T024750_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_220200805T024912_20200805T024927_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_220200805T025128_20200805T025505_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_220200805T025508_20200805T030050_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_220200805T032306_20200805T034015_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200805T034550_20200805T035417_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_220200805T043514_20200805T043811_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_220200805T050300_20200805T051147_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_220200805T051204_20200805T051601_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_220200805T051603_20200805T053820_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_220200805T055442_20200805T061626_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200805T065100_20200805T071701_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_220200805T073321_20200805T075935_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_220200805T080050_20200805T080112_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200805T080415_20200805T081111_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_220200805T082319_20200805T085504_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_220200805T094723_20200805T095021_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_220200805T100212_20200805T101202_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_220200805T101357_20200805T103514_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_220200805T105300_20200805T110906_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_220200805T112707_20200805T112748_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_220200805T113850_20200805T121355_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_220200805T123316_20200805T130500_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_220200805T131706_20200805T133152_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_220200805T133634_20200805T133750_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_220200805T133758_20200805T133857_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_220200805T134012_20200805T135329_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_220200805T141136_20200805T142453_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_220200805T142707_20200805T144417_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_220200805T150630_20200805T151512_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_220200805T151632_20200805T151654_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_220200805T151834_20200805T153220_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_220200805T155527_20200805T160121_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_220200805T160748_20200805T161046_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_220200805T161209_20200805T161246_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_220200805T161329_20200805T161917_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_220200805T162040_20200805T162244_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_220200805T165045_20200805T171042_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_220200805T172716_20200805T175439_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_220200805T182637_20200805T185018_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_220200805T190617_20200805T193841_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_220200805T195359_20200805T195912_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_220200805T200250_20200805T201017_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_220200805T201019_20200805T202218_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_220200805T204714_20200805T211845_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_220200805T213054_20200805T213310_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_220200805T222533_20200805T224639_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_220200805T224924_20200805T230058_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200805T231012_20200805T231448_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_220200805T232929_20200805T233531_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	171	171	171	0	0
SIR_SAR_1B	95	95	95	0	0
SIR_SIN_1B	100	100	100	0	0
SIR_LRM_2	171	171	171	0	0
SIR_SAR_2	100	95	95	0	0
SIR_SIN_2	95	100	98	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

14

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
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

3

1

Total number of occurrences of each warning

Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
SIR_GDR_2_	0	1					
SIR_SIN_2_	2	0					

Test Description Key:					
Abbreviation	Test name	Details			
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice			
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice			

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS_OFFL_SIR_GDR_2_20200805T224232_20200806T002147_D002