

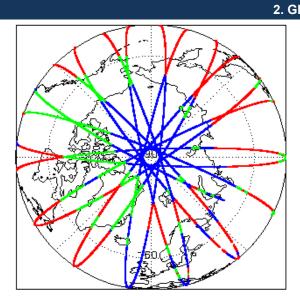
QA4EO Daily Report for OFFLINE data:

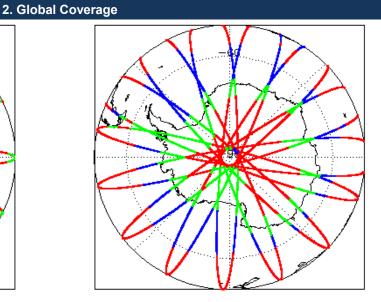
<u>27/10/2020</u>

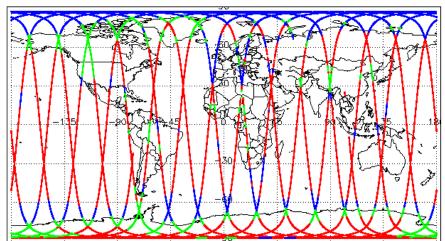
1. Overview

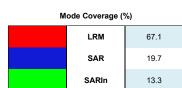
Demant Dreduction Dates	26-Nov-2020	Check	Status	
Report Production Date:	20-INOV-2020	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor used.	CryoSat ice Processor	Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
	LIB and L2 OFFLINE Data	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	

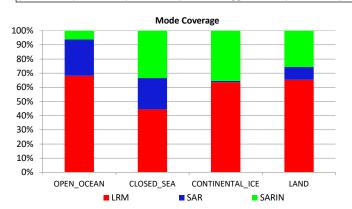
Mission / Instru	Mission / Instrument News					
26-Oct-2020	None					
27-Oct-2020	None					
28-Oct-2020	Nothing planned					

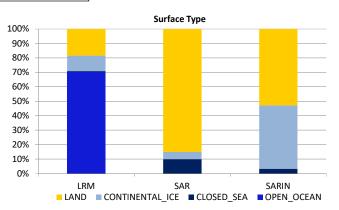












3. Instrument Configuration

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

SIRAL - A

SIRAL instrument(s) in use:

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.

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Number of products with errors:

CS_OFFL_SIR_LRM_18_20201027T004942_20201027T005058_20201027T0050542_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T005558_20201027T005554_20201027T005554_20201027T005556_20201027T010221_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T005556_20201027T011221_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T012429_20201027T011242_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T020809_20201027T01345_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T020809_20201027T023010_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T023852_20201027T02439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T044358_20201027T04439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T044358_20201027T04439_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T044532_20201027T044530_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_18_20201027T044532_20201027T045321_D001 Loss of echo
CS_OFFL_SIR_LRM_18_20201027T00558_20201027T00558_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T01427_20201027T01221_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T01427_20201027T012210_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T01248_20201027T015052_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T02089_20201027T02380_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T023852_20201027T023852_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T023852_20201027T024039_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T041232_20201027T0414220_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T04123_20201027T041420_D01Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T04123_20201027T04183_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T04183_20201027T04183_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T04183_20201027T04183_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T054142_20201027T054142_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20201027T05
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CS_OFFL_SIR_LRM_1B_20201027T111301_20201027T111301_D001 Loss of echo The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20201027T111305_20201027T111306_D001 Loss of echo The tracking echo is missing for one or more records

CS OFFL SIR LRM 1B 20201027T111308 20201027T111323 D001 CS OFFL SIR LRM 1B 20201027T111325 20201027T111710 D001 CS OFFL SIR LRM 1B 20201027T111814 20201027T112911 D001 CS_OFFL_SIR_LRM_1B_20201027T121644_20201027T122007_D001 CS OFFL SIR LRM 1B 20201027T122009 20201027T122303 D001 CS_OFFL_SIR_LRM_1B_20201027T122547_20201027T123600_D001 CS OFFL SIR LRM 1B 20201027T124656 20201027T125040 D001 CS OFFL SIR LRM 1B 20201027T125042 20201027T125253 D001 CS_OFFL_SIR_LRM_1B_20201027T125257 20201027T125302 D001 CS OFFL SIR LRM 1B 20201027T125305 20201027T125320 D001 CS OFFL SIR LRM 1B 20201027T125322 20201027T125335 D001 CS_OFFL_SIR_LRM_1B_20201027T125338_20201027T125414_D001 CS_OFFL_SIR_LRM_1B_20201027T125416_20201027T125433_D001 CS_OFFL_SIR_LRM_1B_20201027T125435_20201027T125500_D001 CS OFFL SIR LRM 1B 20201027T133918 20201027T140525 D001 CS_OFFL_SIR_LRM_1B_20201027T140527_20201027T140544_D001 CS_OFFL_SIR_LRM_1B_20201027T140547_20201027T140701_D001 CS_OFFL_SIR_LRM_1B_20201027T142958_20201027T143636_D001 CS_OFFL_SIR_LRM_1B_20201027T143815_20201027T150225_D001 CS_OFFL_SIR_LRM_1B_20201027T160809_20201027T161126_D001 CS_OFFL_SIR_LRM_1B_20201027T161200_20201027T161358_D001 CS_OFFL_SIR_LRM_1B_20201027T161442_20201027T162109_D001 CS OFFL SIR LRM 1B 20201027T162111 20201027T162116 D001 CS_OFFL_SIR_LRM_1B_20201027T162124_20201027T162240 D001 CS OFFL SIR LRM 1B 20201027T162245 20201027T162556 D001 CS_OFFL_SIR_LRM_1B_20201027T162558_20201027T163235_D001 CS_OFFL_SIR_LRM_1B_20201027T165211_20201027T165346_D001 CS OFFL SIR LRM 1B 20201027T165929 20201027T173129 D001 CS OFFL SIR LRM 1B 20201027T174626 20201027T174629 D001 CS OFFL SIR LRM 1B 20201027T175027 20201027T175148 D001 CS OFFL SIR LRM 1B 20201027T175200 20201027T175308 D001 CS_OFFL_SIR_LRM_1B_20201027T175927_20201027T180108_D001 CS OFFL SIR LRM 1B 20201027T180220 20201027T181956 D001 CS_OFFL_SIR_LRM_1B_20201027T183743_20201027T191316_D001 CS OFFL SIR LRM 1B 20201027T193227 20201027T193256 D001 CS_OFFL_SIR_LRM_1B_20201027T193315_20201027T193340_D001 CS OFFL SIR LRM 1B 20201027T193515 20201027T193957 D001 CS_OFFL_SIR_LRM_1B_20201027T194038_20201027T195929_D001 CS_OFEL_SIR_LRM_1B_20201027T201716_20201027T205046_D001 CS OFFL SIR LRM 1B 20201027T205049 20201027T205212 D001 CS OFFL SIR LRM 1B 20201027T205218 20201027T205325 D001 CS OFFL SIR LRM 1B 20201027T212456 20201027T213804 D001 CS_OFFL_SIR_LRM_1B_20201027T214654_20201027T214851_D001 CS_OFFL_SIR_LRM_1B_20201027T215023_20201027T215354_D001 CS OFFL SIR LRM 1B 20201027T215629 20201027T221117 D001 CS_OFFL_SIR_LRM_1B_20201027T222612_20201027T222721_D001 CS OFFL SIR LRM 1B 20201027T222724 20201027T222739 D001 CS_OFFL_SIR_LRM_1B_20201027T222742_20201027T222821_D001 CS_OFFL_SIR_LRM_1B_20201027T222823_20201027T222928_D001 CS_OFFL_SIR_LRM_1B_20201027T222930_20201027T223306_D001 CS_OFFL_SIR_LRM_1B_20201027T224458_20201027T230158_D001 CS_OFFL_SIR_LRM_1B_20201027T230639_20201027T230756_D001 CS OFFL SIR LRM 1B 20201027T230759 20201027T230813 D001 CS_OFFL_SIR_LRM_1B_20201027T230815_20201027T230848 D001 CS OFFL SIR LRM 1B 20201027T230851 20201027T230853 D001 CS_OFFL_SIR_LRM_1B_20201027T230900_20201027T230900_D001 CS OFFL SIR LRM 1B 20201027T230904 20201027T230905 D001 CS_OFFL_SIR_LRM_1B_20201027T230907_20201027T230912_D001 CS_OFFL_SIR_LRM_1B_20201027T230915_20201027T230936_D001 CS OFFL SIR LRM 1B 20201027T230939 20201027T230944 D001 CS OFFL SIR LRM 1B 20201027T230947 20201027T231521 D001 CS_OFFL_SIR_LRM_1B_20201027T231548_20201027T231617_D001 CS OFFL SIR LRM 1B 20201027T235837 20201027T235946 D001

Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss of echo Loss of echo l oss 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

4.5 L1B Calibration Usage Check		
Each product is checked in order to ensure that the necessary calibration files have	e 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-det	termined baseline and also to check the val	dity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.7 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 54) for each measurement I	record. The bit value of this flag indicates ar	ny 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 me	surement record. The bit value of this flag ir	dicates any problems when set.
Currently, there are several common error flags raised in the Level 1B produ	-	
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, inc	licating that the ADC correction application	is deactivated, but this is in line with the current configuration.
Number of products with errors: 0		
5. Le	evel 2 Data Quality Check	
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	re it consists of both an XML header file (.H	DR) 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 SF	PH in order to identify any inconsistencies a	nd/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-del	termined baseline and also to check the val	dity 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 re	cord. The bit value of this flag indicates any	problems when set.
Number of products with errors: 0	5 ,	
5.5 L2 Measurement Quality Flag Check		
CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement reco	and The hit value of this flag indicates any n	rohlems when set
Currently, there are several common error flags raised in the Level 2 product		
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 discr	iminated as sea-ice, and for which freeboar	d cannot be calculated
Height and Backscatter errors: These flags are currently set for products over la	·	
this is to be expected. Peakiness error: This flag is currently set for products over sea-ice, but this is to b	ne expected	
SARIN X-Track Angle Error: This flag is set when the difference between the com		0 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 t	nis is to be expected
Number of products with errors: 53	obourning at our loo type boundaries, but t	
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220201026T235719_20201027T001044_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_20201027T002701_20201027T004836_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_220201027T005538_20201027T005654_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20201027T011427_20201027T012210_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_220201027T012429_20201027T015027_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_220201027T020809_20201027T023010_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_220201027T030322_20201027T032823_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_220201027T034536_20201027T041220_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_220201027T042009_20201027T042300_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_220201027T043503_20201027T050731_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_220201027T055835_20201027T060229_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_220201027T061409_20201027T062327_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_220201027T062613_20201027T064734_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_220201027T070505_20201027T071448_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_220201027T071636_20201027T072239_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_220201027T072428_20201027T072910_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_220201027T075113_20201027T082613_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_220201027T084528_20201027T091650_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_220201027T092929_20201027T093030_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201027T093050_20201027T093153_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201027T093155_20201027T094410_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_220201027T094655_20201027T094947_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_220201027T094957_20201027T100548_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_220201027T102313_20201027T103305_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_220201027T103925_20201027T105518_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_220201027T111814_20201027T112911_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_220201027T113051_20201027T114417_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_220201027T120435_20201027T121600_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_220201027T121644_20201027T122007_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_220201027T122009_20201027T122303_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_220201027T122547_20201027T123600_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_220201027T130151_20201027T132241_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_220201027T133918_20201027T140525_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_220201027T142958_20201027T143636_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
		•

CS_OFFL_SIR_LRM_220201027T143815_20201027T150225_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_220201027T151846_20201027T155151_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_220201027T160427_20201027T160650_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_220201027T161442_20201027T162109_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_220201027T162558_20201027T163235_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_220201027T165929_20201027T173129_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_220201027T175200_20201027T175308_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_220201027T180220_20201027T181956_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_220201027T183743_20201027T191316_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_220201027T193515_20201027T193957_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_220201027T194038_20201027T195929_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_220201027T201716_20201027T205046_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_220201027T205049_20201027T205212_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220201027T210511_20201027T212422_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_220201027T212456_20201027T213804_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_220201027T215629_20201027T221117_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_220201027T221319_20201027T222241_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_220201027T224458_20201027T230158_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_220201027T233609_20201027T234947_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	172	172	172	0	0
SIR_SAR_1B	102	102	102	0	0
SIR_SIN_1B	102	102	102	0	0
SIR_LRM_2	170	170	165	5	0
SIR_SAR_2	102	100	100	0	0
SIR_SIN_2	100	102	100	2	0
SIR_GDR_2	15	15	0	0	15

6.1 QCC Errors

Number of products with QCC errors:

Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	STRUCTURESIZ EANDREAD	-	•	-
SIR_GDR_2_	15	15	15	15	15	15	15	15			
Test Description	n Key:										
Abbreviation	Test na	Test name Details									
MPHDUTNCDF	MPH_De	MPH_Delta_UT1_NetCDF Delta_UT1 mismatch									
MPHXPFNCDF	MPH_X_	MPH_X_Position_Float_v2_NetCDF X_Position mismatch (DBL float (GDR), rounded to 100)									
MPHXVFNCDF	MPH_X_	Velocity_Float_v2_	ity_Float_v2_NetCDF X_Velocity mismatch (DBL float (GDR), rounded to 1)								
MPHYPFNCDF	MPH_Y_	MPH_Y_Position_Float_v2_NetCDF Y_Position mismatch (DBL float (GDR), rounded to 100)									
MPHYVFNCDF	MPH_Y_	IPH_Y_Velocity_Float_v2_NetCDF Y_Velocity mismatch (DBL float (GDR), rounded to 1)									
MPHZPFNCDF	MPH_Z_	Position_Float_v2_	NetCDF	Z_Position mismat	ch (DBL float (GDF	R), rounded to 100)					
MPHZVFNCDF	MPH_Z_	Velocity_Float_v2_	NetCDF	Z_Velocity mismat	ch (DBL float (GDF	R), rounded to 1)					

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6.2 QCC Warnings

Product Type	AXDME	AXSMMEOCI	AXSMEOOO	AXWMMEOOO	· ·	-		
SIR GDR 2	0	1	0	0				
SIR_LRM_2_	0	4	1	1				
est Description Key	<i>r</i> :							
Abbreviation	Test name			Details				
XDME	AttributeXrefDemMustExist			The xref_dem attribute i	The xref_dem attribute is mandatory in SIN products over continental ice			
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce			The xref_slope_model is	The xref_slope_model is mandatory in LRM products over continental ice			
XSME000	AttributeXrefSsbM	AttributeXrefSsbMustExistOverOpenOcean The xref_ssb is mandatory in LRM products over open ocean						
XWMMEOOO	EOOO AttributeXrefWindModelMustExistOverOpenOcean The xref_wind_model attribute is mandatory in LRM products over open ocean							
	1			Ι				
6.2 Missing QC	C Reports							

Product name CS_OFFL_SIR_GDR_2_20201027T235229_20201028T013143_D002