





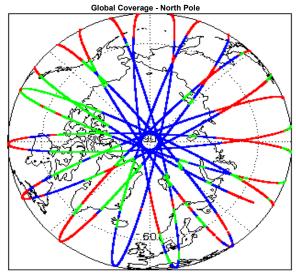
1. Overview

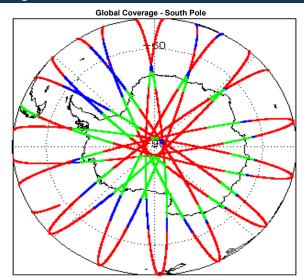
Report Production Date:	01-Jun-2018	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

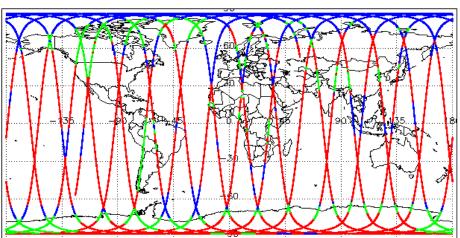
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2 and 5.2
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

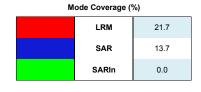
Mission / Instrument News			
01-May-2018	None		
02-May-2018	None		
03-May-2018	Nothing planned		

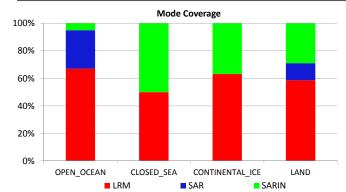
2. Global Coverage

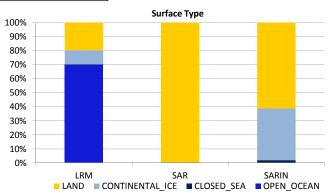












3. Instrument Configuration

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

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

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:

Product	Test Failed		
CS_OFFL_SIR_SAR_1B_20180502T065524_20180502T065526_C001	Percentage of processing errors detected greater than minimum acceptable threshold.		

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 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:

4.5 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.6 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

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:

Product	Test Failed
CS_OFFL_SIR_SAR_2_20180502T065524_20180502T065526_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

SARIn X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected

Number of products with errors:

108

Section 1. In 19th 1. In the processor of 19th 1. In the p	Product	Test Failed	Description	
Co. OFT Gr. UNIV. 2.0000000000000000000000000000000000		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more	
SQUITE_BILLION_2_protection to protection protection of the protec		Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more	
Secretary Communication Commun		,		
Each PER BEACH 2 SENSORT CONTROLL 2016 CONTR	CS_OFFL_SIR_LRM_2201805021010613_201805021012707_C001	Error (Retracker 2)	records	
COUNT SERVED 2 DESCONDENDED SERVED SE	CS_OFFL_SIR_LRM_220180502T012757_20180502T013152_C001	Error (Retracker 2)	records	
CQ-OTT_SPL_FILE_2_00000000000000000000000000000000000	CS_OFFL_SIR_LRM_220180502T014339_20180502T014435_C001	Error (Retracker 2)		
Early (Freedam 2) Associated and a height early (Freedam 2) Associated a	CS_OFFL_SIR_LRM_220180502T015704_20180502T023149_C001	(Retracker 3), Backscatter Error		
Seg of the processor of	CS_OFFL_SIR_LRM_220180502T024949_20180502T025237_C001			
Co. OFFL. SRI, IMA 2_2010000071030301, 2010000071030301, common mine Co. OFFL. SRI, IMA 2_2010000071030301, common mine Co. OFFL. SRI, IMA 2_201000007103031, common mine Co. OFFL. SRI, IMA 2_201000007103032, common mine Co. OFFL. SRI, IMA 2_20100	CS_OFFL_SIR_LRM_220180502T025415_20180502T030146_C001			
For Chestower 2, 1945 Limb 2, 2018002/104012, 2018002/104013, C001 CS_CPH_SR_IRW_2_0018002/104012, C018002/104013, C001 CS_CPH_SR_IRW_2_0018002/104012, C018002/104013, C001 CS_CPH_SR_IRW_2_0018002/104012, C018002/104013, C001 CS_CPH_SR_IRW_2_0018002/104012, C018002/104012, C0	CS_OFFL_SIR_LRM_220180502T032030_20180502T032433_C001	(Retracker 3), Backscatter Error (Retracker 2)		
CS_OFF_SRI_EN_2_201686273441_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734450_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_2018562734560_20185	CS_OFFL_SIR_LRM_220180502T033716_20180502T034554_C001	Error (Retracker 2)		
SCOPE, SIR LIMB 2_0188002T104512_018002T104512_0180 Sept From (Petaboxer 2), Hopfs Enrich Petaboxer 2 (Apple Enrichment of Schoolsested Enrichment of School	CS_OFFL_SIR_LRM_220180502T034841_20180502T041059_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records	
CS_OFF_SR_LEM_2_20100527100162_20100527100162_000071010102_0000527100162_00071 CS_OFF_SR_LEM_2_201005271001012_201000527100102_00071001012_0005271001012_00	CS_OFFL_SIR_LRM_220180502T042411_20180502T043713_C001		ŭ	
CS_OFFL_SRL_PM_2_2016000271000422_010000271000422_0001 CS_OFFL_SRL_PM_2_2016000271000422_010000271000422_0001 CS_OFFL_SRL_PM_2_2016000271000422_010000271000422_0001 CS_OFFL_SRL_PM_2_2016000271000422_0001 CS_OFFL_SRL_PM_2_2016000271000422_0001 CS_OFFL_SRL_PM_2_2016000271000422_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_0001 CS_OFFL_SRL_PM_2_201600027100042_000000000000000000000000000000000	CS_OFFL_SIR_LRM_220180502T043901_20180502T044618_C001	(Retracker 3), Backscatter Error (Retracker 2)		
Enrol (Relatacker 2), Height Enrol Relatacker 2, Height Enrol Relatacker 2 and a height error for Rela	CS_OFFL_SIR_LRM_220180502T044701_20180502T045134_C001	(Retracker 3), Backscatter Error (Retracker 2)		
CS_OFFL_SR_LENU_2_20180502719309_20180502719309_COIL CS_OFFL_SR_LENU_2_201805027100009_201805027150375_COIL CS_OFFL_SR_LENU_2_201805027100009_201805027150375_COIL CS_OFFL_SR_LENU_2_201805027100009_201805027100113_COIL CS_OFFL_SR_LENU_2_201805027100009_201805027100113_COIL CS_OFFL_SR_LENU_2_201805027100009_201805027100113_COIL CS_OFFL_SR_LENU_2_201805027100009_20180502710010000000000000000000000000000000	CS_OFFL_SIR_LRM_220180502T050042_20180502T050055_C001	, ,		
CS_OFFL_SIR_LRM_2_201650207163032 201650207103032 0000 From (Retracker 2). Backscatter from (Retracker 2) and a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter from (Retracker 2).	CS_OFFL_SIR_LRM_220180502T051723_20180502T054932_C001	(Retracker 3), Backscatter Error		
CS_OFFL_SR_LRN_2_20160502710375_016002710315_COID CS_OFFL_SR_LRN_2_201605027015055_20160502707115_COID CS_OFFL_SR_LRN_2_20160502707385_COID CS_OFFL_SR_LRN_2_20160502700742_COID CS_OFFL_SR_LRN_2_20160502710275_COID CS_OFFL_SR_LRN_2_20160502710275_COID CS_OFFL_SR_LRN_2_20160502710275_COID CS_OFFL_SR_LRN_2_20160502711237_COID CS_OFFL_SR_LRN_2_20160502711237_COID CS_OFFL_SR_LRN_2_20160502711237_COID CS_OFFL_SR_LRN_2_20160502711237_COID CS_OFFL_SR_LRN_2_20160502711237_COID CS_OFFL_SR_LRN_2_20160502711237_COID CS_OFFL_SR_LRN_2_201605027112375_COID CS_OFFL_SR_LRN_2_201605027113472_COID CS_OFFL_SR_L	CS_OFFL_SIR_LRM_220180502T060753_20180502T062021_C001			
CS_OFFL_SR_LRM_2_20180902719372_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_0180902719382_018090271938	CS_OFFL_SIR_LRM_220180502T062029_20180502T063754_C001	Height Error (Retracker 2), Backscatter		
Error (Retracker 2) SofFL_SIR_LRM_2_201808207109408_201809207109508_0001 Fror (Retracker 2) Backscatter febror (Retracker 2) and a height error (Retracker 2) febror (Retracker	CS_OFFL_SIR_LRM_220180502T065909_20180502T071113_C001	(Retracker 3), Backscatter Error		
Haght Error (Retracter 2), Backscatter Error (Retracter 2) and a height error for Retracker 2 for one or more ecocods of the process of the p	CS_OFFL_SIR_LRM_220180502T071317_20180502T072854_C001			
GS_OFFL_SIR_LRM_2_20180502T08483_20180502T084828_CO01 S_OFFL_SIR_LRM_2_20180502T08483_20180502T08505. GS_OFFL_SIR_LRM_2_20180502T02133_20180502T08505. GS_OFFL_SIR_LRM_2_20180502T10233_20180502T107720_CO01 GS_OFFL_SIR_LRM_2_20180502T10027_20180502T107720_CO01 GS_OFFL_SIR_LRM_2_20180502T10027_20180502T102472_CO01 GS_OFFL_SIR_LRM_2_20180502T10027_20180502T102472_CO01 GS_OFFL_SIR_LRM_2_20180502T10027_20180502T102472_CO01 GS_OFFL_SIR_LRM_2_20180502T123338_20180502T123518_CO01 GS_OFFL_SIR_LRM_2_20180502T123338_20180502T123518_CO01 GS_OFFL_SIR_LRM_2_20180502T123338_20180502T123518_CO01 GS_OFFL_SIR_LRM_2_20180502T123705_CO01 GS_OFFL_SIR_LRM_2_20180502T14030_20180502T145182_CO01 GS_OFFL_SIR_LRM_2_20180502T14030_20180502T145182_CO01 GS_OFFL_SIR_LRM_2_20180502T14030_20180502T145182_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T145023_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T15503_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T15503_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T155057_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T155057_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T155057_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T155057_CO01 GS_OFFL_SIR_LRM_2_20180502T140028_20180502T155057_CO01 GS_OFFL_SIR_LRM_2_20180502T165057_C001 GS_OFFL_SIR_LRM_2_20180502T165057_C0010 GS_OFFL_SIR_LRM_2_20180502T165057_C00	CS_OFFL_SIR_LRM_2_20180502T074505_20180502T075528_C001	Height Error (Retracker 2), Backscatter		
GS_OFFL_SIR_LRM_2_20180502T1092123_20180502T1092516_C001 Emor (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter E	CS_OFFL_SIR_LRM_220180502T080147_20180502T081356_C001	(Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20180502T102313_20180502T1424T0_CO01 CS_OFFL_SIR_LRM_2_20180502T10231_20180502T1124T0_CO01 CS_OFFL_SIR_LRM_2_20180502T11007_20180502T1124T0_CO01 CS_OFFL_SIR_LRM_2_20180502T11007_20180502T1124T0_CO01 CS_OFFL_SIR_LRM_2_20180502T115708_20180502T11254T_CO01 CS_OFFL_SIR_LRM_2_20180502T115708_20180502T12550_CO01 CS_OFFL_SIR_LRM_2_20180502T115708_20180502T125180_CO01 CS_OFFL_SIR_LRM_2_20180502T125715_20180502T125180_CO01 CS_OFFL_SIR_LRM_2_20180502T125715_20180502T125180_CO01 CS_OFFL_SIR_LRM_2_20180502T125715_20180502T125180_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_20180502T134T0_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_20180502T140502_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_20180502T140502_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_000502T140502_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_000502T140502_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_000502T140502_CO01 CS_OFFL_SIR_LRM_2_20180502T140502_C00502T150502_C00502T	CS_OFFL_SIR_LRM_2_20180502T084853_20180502T084928_C001	Height Error (Retracker 2), Backscatter	ŭ	
CS_OFFL_SIR_LRM_2_20180502T1102313_20180502T114294T_C001 (Retracker 2) Height Error (Retracker 2) Backscatter Err	CS_OFFL_SIR_LRM_220180502T092123_20180502T095516_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)		
(Retracker 3), Backscatter Error (Retracker 2), Balkscatter Error	CS_OFFL_SIR_LRM_220180502T102313_20180502T104720_C001	(Retracker 3), Backscatter Error (Retracker 2)		
Error (Retracker 2) Surface Model Unavailable For (Retracker 2) Surface Model Unavailable Surface Model Unavailable Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2), Backsc	CS_OFFL_SIR_LRM_220180502T110027_20180502T112947_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records	
Height Error (Retracker 2). Backscatter Error (Retracker 2) as height and backscatter error for Retracker 2 for one or more records Height Error (Retracker 2). Backscatter Error (Retracker 2). Back	CS_OFFL_SIR_LRM_220180502T115708_20180502T122650_C001	, ,		
Error (Retracker 2) Error	CS_OFFL_SIR_LRM_220180502T123338_20180502T123705_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Error (Retracker 2) Error (Re	CS_OFFL_SIR_LRM_220180502T124030_20180502T125138_C001	Error (Retracker 2)	records	
CS_OFFL_SIR_LRM_2_20180502T140828_20180502T141402_C001 Surface Model Unavailable Error (Retracker 2) Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatt	CS_OFFL_SIR_LRM_220180502T125715_20180502T131450_C001			
Height Error (Retracker 2). Backscatter Error (Retracker 2) theight Error (Retracker 2) theight Error (Retracker 2) theight Error (Retracker 2). Height Error (Retracker 2) theight Error (Retracker 2) theight Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 2). Backsca	CS_OFFL_SIR_LRM_220180502T134016_20180502T134721_C001		ŭ	
Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 3) Backscatter Error (Retracker 3) No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 3) There is a height and backscatter error for Retracker 2 and a height error (Retracker 3) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker	CS_OFFL_SIR_LRM_220180502T140828_20180502T141402_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_2_20180502T152632_20180502T154547_C001 CS_OFFL_SIR_LRM_2_20180502T154749_20180502T155257_C001 Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 2) ES_OFFL_SIR_LRM_2_20180502T155853_20180502T170154_C001 CS_OFFL_SIR_LRM_2_20180502T170250_20180502T170154_C001 CS_OFFL_SIR_LRM_2_20180502T170250_20180502T170154_C001 CS_OFFL_SIR_LRM_2_20180502T170250_20180502T17029_C001 CS_OFFL_SIR_LRM_2_20180502T170250_20180502T173001_C001 CS_OFFL_SIR_LRM_2_20180502T173001_20180502T173201_C001 CS_OFFL_SIR_LRM_2_20180502T173005_20180502T173001_C001 CS_OFFL_SIR_LRM_2_20180502T173005_20180502T175619_C001 CS_OFFL_SIR_LRM_2_20180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T180805_20180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T182806_20180502T184551_C001 CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190113_C001 CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190132_C001 CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190132_C001 CS_OFFL_SIR_LRM_2_20180502T1840502T190132_C001 CS_OFFL_SIR_LRM_2_20180502T1840502T19013327_C001 CS_OFFL_SIR_LRM_2_20180502T1840502T19013327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T19013327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T190132_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T190132_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T190132_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T19	CS_OFFL_SIR_LRM_220180502T141946_20180502T145323_C001	Error (Retracker 2)		
CS_OFFL_SIR_LRM_2_20180502T155853_20180502T163300_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2) Backscatte	CS_OFFL_SIR_LRM_220180502T152632_20180502T154547_C001	(Retracker 3), Backscatter Error		
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error	CS_OFFL_SIR_LRM_220180502T154749_20180502T155257_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20180502T170250_20180502T172029_C001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error for Retracker 3 for one or more records.	CS_OFFL_SIR_LRM_220180502T155853_20180502T163300_C001	Error (Retracker 2)		
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20180502T173001_20180502T173201_C001 CS_OFFL_SIR_LRM_2_20180502T173005_20180502T175619_C001 CS_OFFL_SIR_LRM_2_20180502T180059_20180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T180059_20180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T182806_20180502T184551_C001 CS_OFFL_SIR_LRM_2_20180502T18276_20180502T180502T190113_C001 CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190113_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T193529_20180502T194451_C001 Error (Retracker 2) Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220180502T165733_20180502T170154_C001	Error (Retracker 2)	records	
CS_OFFL_SIR_LRM_2_20180502T173905_20180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T180805_20180502T180803_C001 CS_OFFL_SIR_LRM_2_20180502T182806_20180502T184551_C001 CS_OFFL_SIR_LRM_2_20180502T182806_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T193529_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T193529_20180502T194451_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatt	CS_OFFL_SIR_LRM_220180502T170250_20180502T172029_C001			
CS_OFFL_SIR_LRM_2_20180502T180803_C001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20180502T182806_20180502T184551_C001 CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190113_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 Error (Retracker 2), Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220180502T173001_20180502T173201_C001			
CS_OFFL_SIR_LRM_2_20180502T182806_20180502T184551_C001 CS_OFFL_SIR_LRM_2_20180502T182806_20180502T190113_C001 CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190113_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 CS_OFFL_SIR_LRM_2_20180502T193529_20180502T194451_C001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220180502T173905_20180502T175619_C001	Error (Retracker 2)	records	
CS_OFFL_SIR_LRM_2_20180502T184716_20180502T190113_C001 Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Height Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220180502T180059_20180502T180803_C001	Error (Retracker 2)	records	
Error (Retracker 2) CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Height	CS_OFFL_SIR_LRM_220180502T182806_20180502T184551_C001	Error (Retracker 2)	records	
CS_OFFL_SIR_LRM_2_20180502T191802_20180502T193327_C001 (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backsc	CS_OFFL_SIR_LRM_220180502T184716_20180502T190113_C001	Error (Retracker 2)		
CS_OFFL_SIR_LRM_2_20180502T193529_20180502T194451_C001 (Retracker 3), Backscattler Error for Petracker 2 and a neight error for Petracker 2 and a neight error for Petracker 2 and a neight error for Petracker 3 for petracke	CS_OFFL_SIR_LRM_220180502T191802_20180502T193327_C001	(Retracker 3), Backscatter Error (Retracker 2)		
	CS_OFFL_SIR_LRM_220180502T193529_20180502T194451_C001	(Retracker 3), Backscatter Error		

CS_OFFL_SIR_LRM_220180502T201237_20180502T202355_C001	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_220180502T204715_20180502T205513_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180502T205730_20180502T211234_C001	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_20180502T214926_20180502T222315_C001	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_220180502T222549_20180502T222757_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180502T222824_20180502T223359_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20180502T223647_20180502T230143_C001	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_220180502T233348_20180502T233532_C001	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_220180502T233535_20180502T234456_C001	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_220180502T235034_20180503T000144_C001	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_SIN_220180502T005453_20180502T005846_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T010437_20180502T010603_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T014522_20180502T014544_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T014548_20180502T014615_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T015407_20180502T015504_C001	Height Error (Retracker 1)	There is a height error for Retracker 1 for one or more records
CS_OFFL_SIR_SIN_220180502T023440_20180502T023752_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T024308_20180502T024417_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T041215_20180502T041631_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T042208_20180502T042332_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T050138_20180502T050543_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T055002_20180502T055130_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T055951_20180502T060137_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T063802_20180502T063925_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T064345_20180502T064438_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T065020_20180502T065108_C001	Height Error (Retracker 1)	There is a height error for Retracker 1 for one or more records
CS_OFFL_SIR_SIN_220180502T072907_20180502T073049_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T073621_20180502T073628_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T073751_20180502T074011_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T082140_20180502T082352_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T090801_20180502T091004_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T091519_20180502T091525_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T091535_20180502T091542_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T091649_20180502T092122_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T100732_20180502T100805_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20180502T104814_20180502T105047_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T105417_20180502T105423_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T105807_20180502T105950_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T122659_20180502T122829_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T123330_20180502T123337_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T123705_20180502T123841_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T132545_20180502T132610_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T140712_20180502T140828_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T141402_20180502T141720_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T150511_20180502T150536_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T150541_20180502T150607_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20180502T154629_20180502T154748_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T155257_20180502T155608_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T172722_20180502T173000_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T173201_20180502T173731_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T182248_20180502T182732_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T191110_20180502T191217_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220180502T191612_20180502T191750_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T200152_20180502T200301_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T200411_20180502T200542_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T202415_20180502T203959_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T204450_20180502T204714_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T205514_20180502T205702_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T214109_20180502T214701_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T2222400_20180502T222549_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T222758_20180502T222824_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180502T223400_20180502T223623_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20180502T231442_20180502T231501_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220180502T231557_20180502T231630_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used 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	152	152	152	0	0
SIR_LRM_2	150	150	150	0	0
SIR_LRMI2_	150	150	150	0	0
SIR_SAR_1B	118	118	118	0	0
SIR_SAR_2	118	118	118	0	0
SIR_SARI2_	118	118	118	0	0
SIR_SIN_1B	105	105	105	0	0
SIR_SIN_2	105	105	105	0	0
SIR_SINI2	105	105	105	0	0
SIR_GDR_2	14	14	14	0	0

6.1 QCC Errors

Number of products with QCC errors:

0

6.2 QCC Warnings

Number of QCC reports with warnings

0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

186