



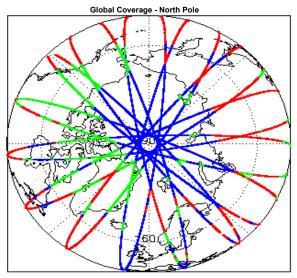
1. Overview

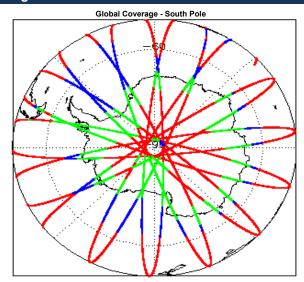
Report Production Date:	20-Jun-2018		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

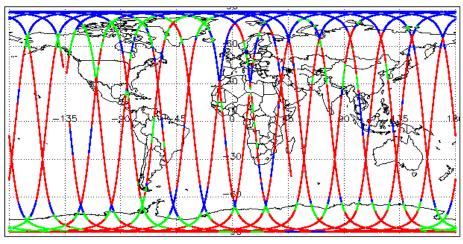
Check	Status	
Server check: science-pds.cryosat.esa.int	Nominal	
Server check: calval-pds.cryosat.esa.int	Nominal	
Product Software Check	Nominal	
Product Format Check	Nominal	
Product Header Analysis	Nominal	
Star Tracker Usage Check	Nominal	
L1B Calibration Usage Check	Nominal	
L1B & L2 Auxiliary Data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

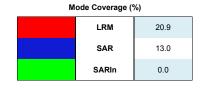
Mission / Instrument News			
20-May-2018	None		
21-May-2018	None		
22-May-2018	Nothing planned		

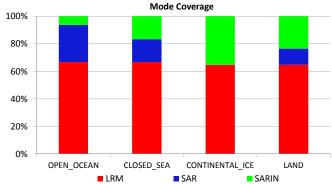
2. Global Coverage

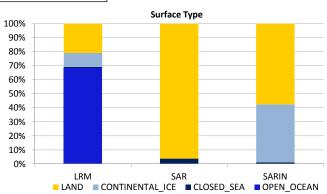












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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

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: 0

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.

lumber 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:

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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220180520T235345_20180521T001509_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20180521T001512_20180521T002223_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
00_011	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220180521T003002_20180521T003144_C001	(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_220180521T004440_20180521T011821_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_220180521T014105_20180521T014500_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_220180521T020807_20180521T021204_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_220180521T022356_20180521T023310_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 OFFI CID LDM 2 20400F24T022FFF 20400F24T02F740 C004	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220180521T023555_20180521T025748_C001	(Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220180521T032613_20180521T033219_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_220180521T033401_20180521T033847_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_220180521T040306_20180521T043628_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_220180521T045505_20180521T052556_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_220180521T054413_20180521T054813_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_220180521T054815_20180521T055351_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_20180521T055446_20180521T061551_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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_220180521T063245_20180521T064240_C001	(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20180521T064859_20180521T070140_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20180521T071758_20180521T073851_C001	(Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	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_220180521T074030_20180521T075445_C001	(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220180521T081356_20180521T082956_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2) Height Error (Retracker 2), Height Error	records There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220180521T083003_20180521T083237_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220180521T083433_20180521T084221_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_220180521T091130_20180521T093341_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_220180521T094812_20180521T101447_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_220180521T103741_20180521T103916_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_220180521T104746_20180521T111342_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_220180521T112753_20180521T113848_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_220180521T115758_20180521T120129_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_220180521T122848_20180521T123036_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220180521T130727_20180521T134104_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220180521T141351_20180521T143208_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_220180521T144630_20180521T152037_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_220180521T154448_20180521T154928_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_220180521T155007_20180521T160836_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_220180521T162624_20180521T165847_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_220180521T171508_20180521T173348_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_220180521T173430_20180521T174744_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_220180521T175625_20180521T175822_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20180521T180520_20180521T182044_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_220180521T182246_20180521T183208_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_220180521T185420_20180521T185645_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_220180521T185853_20180521T191130_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_220180521T193445_20180521T193747_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180521T194500_20180521T195914_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2)	records

Description Communication	CC OEEL SID LDM 2 20400E24T202747 20400E24T2044E9 C004	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Find Timburds 2)	CS_OFFL_SIR_LRM_2_20180521T203747_20180521T204458_C001		
De Conference Par Land 2 protect 172144 par 1821 172144 p. CONFERENCE DE			
Each FERENCE 2 (2000/2017/2002) (2000/2017/2002) (2000/2017/2004) (2000/20			· ·
COURT SET UNITS 2. 2010/2017/2019/2019 (2010/2017/2019/2019) (2010/2017/2019/2019/2019/2019/2019/2019/2019/2019	CS_OFFL_SIR_LRM_220180521T212440_20180521T214944_C001	Error (Retracker 2)	records
Conf. Conf	CS_OFFL_SIR_LRM_220180521T215906_20180521T215943_C001	Error (Retracker 2)	records
Early Fig. 19.1. 2. Delegation to the second of the second	CS_OFFL_SIR_LRM_220180521T222148_20180521T223210_C001	Error (Retracker 2)	records
Copper Billion 19 2 (2018) 2018 1197 1197 2019 2019 2019 2019 2019 2019 2019 2019	CS_OFFL_SIR_LRM_220180521T223744_20180521T224845_C001	Error (Retracker 2)	records
Early (Rescue 2) Control (See Set 2) Control (See	CS_OFFL_SIR_LRM_220180521T230320_20180521T233034_C001	Error (Retracker 2)	records
Mode of targeting	CS_OFFL_SIR_LRM_220180521T235530_20180522T001123_C001	Error (Retracker 2)	records
Schrift, Sins, 22 20180211100322 20180211100305 2018021100	CS_OFFL_SIR_SIN_220180521T003310_20180521T003328_C001		Model was used for one or more records
GC-PH_SR_SR_2	CS_OFFL_SIR_SIN_2_20180521T012152_20180521T012506_C001	SARIn X-track Angle Error	records
Sec. OFF., Set, 96.1 2, 20100211010400 2, 20100211010400 C010 SARIO Actions Angle Entro SARIO Actions Angle Entro An antiquous angle was decided for SARio mode for one or more An antiquous angle was decided for SARio mode and or DEVA or Sign. Model was used for one or more An antiquous angle was decided for SARio mode and or DEVA or Sign. Model was used for one or more An antiquous angle was decided for SARio mode and or DEVA or Sign. Model was used for one or more An antiquous angle was decided for SARio mode for one or more Anno Antiquous angle was decided for SARio mode for one or more Anno Antiquous angle was decided for SARio mode for one or more Anno Antiquous angle was decided for SARio mode fo	CS_OFFL_SIR_SIN_2_20180521T013026_20180521T013145_C001	SARIn X-track Angle Error	
SOFT, SIRS NY 2_018621T00369_2100351T00480_001 SARIN XHIRA Angle Error An antispuos angle was denoted for SARIN mode for one or more Annual and antispuos angle was denoted for SARIN mode for one or more Annual and a	CS_OFFL_SIR_SIN_220180521T030037_20180521T030356_C001	SARIn X-track Angle Error	
Model date used for one or new records April 1987, 201903711043712_0105051104000_C001 April 1987, 5.N.P 201903711043712_01050511040000_C001 April 1987, 5.N.P 20190371040000_C001 April 1987, 5.N.P 20190371040000_C001 April 1987, 5.N.P 20190371040000_C001 April 1987, 5.N.P 20190371040000_C001 April 1987, 5.N.P 20190371040000000000000000000000000000000000	CS_OFFL_SIR_SIN_220180521T030921_20180521T031046_C001	SARIn X-track Angle Error	
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Scherff, Sills, Sills, 2. 20198051170170201, 2019805117001702, 2019 SARIN Xirack Angle Error SA	CS_OFFL_SIR_SIN_220180521T034952_20180521T035259_C001	SARIn X-track Angle Error	
SAPIT. NESS AND 2_01000211100410_000011004100_00001 SAPIT. NESS Angle Error CO. OFFE, SIR SIN 2_010002111005107_001002111005157_0010 SAPIT. Ness Angle Error An arrighous argle was delected for SARIn mode for one or more records CO. OFFE, SIR SIN 2_01000211100510_010002111005157_0010 SAPIT. Ness Angle Error An arrighous argle was delected for SARIn mode for one or more records CO. OFFE, SIR SIN 2_01000211100510_010002111005127_01000211100510_01000211100517_0100021100517_01000211100510_01000211100517_01000211100510_01000211100517_0100021100517_0100021100517_01000211100510_0100021100517_01000211100510_0100021100517_0100517_0100	CS_OFFL_SIR_SIN_220180521T043712_20180521T043902_C001	SARIn X-track Angle Error	
SAPIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more needed. SAPIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more needed. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed. An ambiguous angle was detected for SARIn mode for one or more needed.	CS_OFFL_SIR_SIN_220180521T044730_20180521T044908_C001	SARIn X-track Angle Error	
SAFIN X-mack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SAFIN X-mack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SAFIN X-mack Angle Error SARIN X-mack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-mack Angle Error SARIN X-ma	CS_OFFL_SIR_SIN_220180521T052615_20180521T052735_C001	SARIn X-track Angle Error	* *
CS_OFFL_SIR_SIN_2_2018052117061972_01805211706292_C001 SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error An ambiguous angle was detected for SARIn mode for one or more except. SARIN X-rack Angle Error SARI	CS_OFFL_SIR_SIN_2_20180521T053059_20180521T053157_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARID X-track Angle Error SARID X-track Angle E	CS_OFFL_SIR_SIN_220180521T061617_20180521T061758_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error SARIN X-track Angle E	CS_OFFL_SIR_SIN_220180521T062336_20180521T062342_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SAFIN X-track Angle Error Coords An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error Surface Mode was used to one or more records SARIN X-track Angle Error Surface Mode was used to one or more records SARIN X-track Angle Error Surface Mode was used to one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected	CS_OFFL_SIR_SIN_220180521T062510_20180521T062721_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SAPIN X-frack Angle Error SARIN x-frack Angle Error SA	CS_OFFL_SIR_SIN_220180521T070444_20180521T070745_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-tr	CS_OFFL_SIR_SIN_2_20180521T070857_20180521T071111_C001		An ambiguous angle was detected for SARIn mode and no DEM or Slope
SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error An ambiguous angle was detecte	CS_OFFL_SIR_SIN_220180521T075530_20180521T075715_C001		An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T080359_20180521T080450_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T094132_20180521T094130_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T1094132_20180521T094130_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T11402_20180521T11094700_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T114240_20180521T112540_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T114240_20180521T112540_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or mor	CS_OFFL_SIR_SIN_2_20180521T080234_20180521T080240_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
Seg OFFL_SIR_SIN_2_20180521T093521_20180521T094132_20180521T094132_20180521T094132_20180521T094132_20180521T094132_20180521T094132_20180521T094700_C001 SARIN_X-track Angle Error SAR	CS_OFFL_SIR_SIN_2_20180521T080359_20180521T081045_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error excords An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error excords An ambiguous angle was detected for SARIn mode for one or more records Excords SARIN X-track Angle Error excords SARIN X-track Angle Error excords An ambiguous angle was detected for SARIn mode for one or more records Excords SARIN X-track Angle Error excords An ambiguous angle was detected for SARIn mode for one or more records Excords SARIN X-track Angle Error excords An ambiguous angle was detected for SARIn mode for one or more records Excords SARIN X-track Angle Error excords An ambiguous angle was detected for SARIn mode for one or more records Excords SARIN X-track Angle Error excords Excords SARIN X-track	CS_OFFL_SIR_SIN_220180521T093521_20180521T093754_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SAPIN X-track Angle Error records an ambiguous angle was detected for SAPIn mode for one or more records. SAPIN X-track Angle Error records an ambiguous angle was detected for SAPIn mode for one or more records. SAPIN X-track Angle Error records an ambiguous angle was detected for SAPIn mode for one or more records. SAPIN X-track Angle Error records an ambiguous angle was detected for SAPIn mode for one or more records. SAPIN X-track Angle Error records and ambiguous angle was detected for SAPIn mode for one or more records. SAPIN X-track Angle Error records. SAPIN X-tr	CS_OFFL_SIR_SIN_220180521T094132_20180521T094138_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error records SARIN SIN_2_20180521T11402_20180521T11254B_C001 SARIN X-track Angle Error records SA	CS_OFFL_SIR_SIN_220180521T094502_20180521T094700_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error An	CS OFFL SIR SIN 2 20180521T111402 20180521T111537 C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error SARIN X-track Angle E	CS OFFL SIR SIN 2 20180521T112420 20180521T112548 C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error SARIN 2_20180521T130132_20180521T130434_C001 SARIN X-track Angle Error		, and the second	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T1430320_20180521T145502_C001 SARIN X-track Angle Error SARIN X-track Angl		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T143337_20180521T143502_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle			An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode f			An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error SARIN X-track Angle E			An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T161914_20180521T162434_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguo		_	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T171011_20180521T171431_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T184905_20180521T185018_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20180521T192852_20180521T193445_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20180521T192852_20180521T193445_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records CS_OFFL_SIR_SIN_2_20180521T194252_20180521T194410_C001 SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 SARIN X-track Angle Error SARIN X-track Angle Error CS_OFFL_SIR_SIN_2_20180521T202827_20180521T211258_C001 SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode			An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T175822_20180521T18500_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode			An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20180521T180325_20180521T180500_C001 SARIn X-track Angle Error		-	
CS_OFFL_SIR_SIN_2_20180521T184905_20180521T185018_C001 SARIn X-track Angle Error CS_OFFL_SIR_SIN_2_20180521T192852_20180521T193445_C001 SARIn X-track Angle Error		-	
CS_OFFL_SIR_SIN_2_20180521T185154_20180521T18540_C001 CS_OFFL_SIR_SIN_2_20180521T192852_20180521T193445_C001 CS_OFFL_SIR_SIN_2_20180521T192852_20180521T193445_C001 CS_OFFL_SIR_SIN_2_20180521T192852_20180521T194410_C001 CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 CS_OFFL_SIR_SIN_2_20180521T21107_20180521T211258_C001 CS_OFFL_SIR_SIN_2_20180521T211107_20180521T211258_C001 CS_OFFL_SIR_SIN_2_20180521T212122_20180521T212327_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope SARIN X-track Angle Error			
CS_OFFL_SIR_SIN_2_20180521T193445_C001 SARIN X-track Angle Error SARIN X-track Angle Error, Surface Model Unavailable SARIN X-track Angle Error			records
CS_OFFL_SIR_SIN_2_20180521T194252_20180521T194410_C001 CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 CS_OFFL_SIR_SIN_2_20180521T202827_20180521T203049_C001 CS_OFFL_SIR_SIN_2_20180521T211107_20180521T211258_C001 CS_OFFL_SIR_SIN_2_20180521T211107_20180521T211258_C001 CS_OFFL_SIR_SIN_2_20180521T212122_20180521T2121227_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode for one or more records An ambiguous angle was detected for SARIN mode and no DEM or Siope			records
CS_OFFL_SIR_SIN_2_20180521T194225_20180521T194410_C001 SARIN X-track Angle Error			records
Model Unavailable Model was used for one or more records CS_OFFL_SIR_SIN_2_20180521T211107_20180521T211258_C001 CS_OFFL_SIR_SIN_2_20180521T212122_20180521T2112327_C001 SARIn X-track Angle Error SARIn X-track Angle Error, Surface		•	records
CS_OFFL_SIR_SIN_2_20180521T21122_20180521T212327_C001 SARIN X-track Angle Error		Model Unavailable	Model was used for one or more records
CS_OFFL_SIR_SIN_2_201805211212122_201805211212327_C001 SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope		-	records
		<u> </u>	records
	CS_OFFL_SIR_SIN_2_20180521T220205_20180521T220223_C001		

CS_OFFL_SIR_SIN_220180521T220322_20180521T220350_C001		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_220180521T225045_20180521T225223_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180521T225344_20180521T225509_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180521T225924_20180521T230218_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode 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	156	156	156	0	0
SIR_LRM_2	155	155	155	0	0
SIR_LRMI2_	155	155	155	0	0
SIR_SAR_1B	103	103	103	0	0
SIR_SAR_2	103	103	103	0	0
SIR_SARI2_	103	103	103	0	0
SIR_SIN_1B	106	106	106	0	0
SIR_SIN_2	106	106	106	0	0
SIR_SINI2	106	106	106	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:

175