



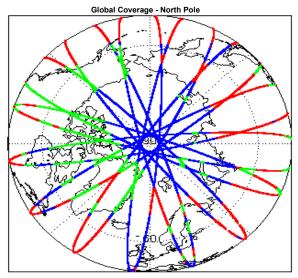
# 1. Overview

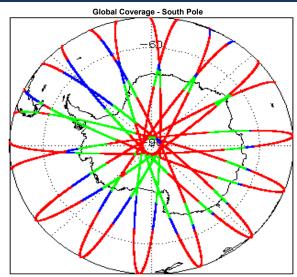
Report Production Date:	<b>Date:</b> 16-May-2018		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

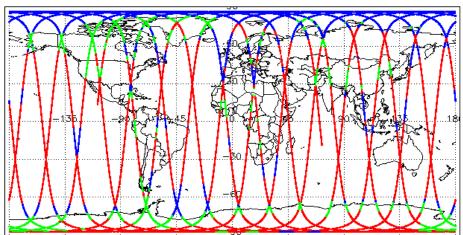
Oh I-	04-4
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary 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

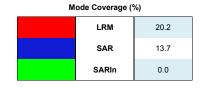
Missi	Mission / Instrument News		
15-/	Apr-2018	None	
16-	Apr-2018	None	
17-/	Apr-2018	Nothing planned	

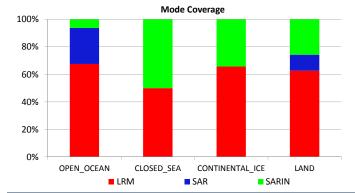
# 2. Global Coverage

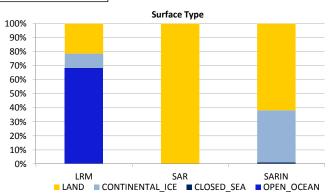












# 3. Instrument Configuration

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:

#### 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:

0

#### 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:

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors: 0

## 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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

Number of products with errors: 103

Product	Test Failed	Description
	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_220180416T004418_20180416T005518_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_220180416T010056_20180416T011211_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_220180416T012551_20180416T015443_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

00.0551.010.1014.0.000000000000000000000	Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220180416T020212_20180416T020348_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220180416T021717_20180416T025113_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_220180416T034058_20180416T034430_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_220180416T035648_20180416T040527_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_220180416T040812_20180416T043036_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_220180416T044343_20180416T045653_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_220180416T045835_20180416T050317_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_220180416T053518_20180416T060850_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_220180416T062728_20180416T065843_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_220180416T071848_20180416T072606_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_220180416T073048_20180416T074824_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_220180416T080528_20180416T081907_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_220180416T082120_20180416T083320_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_220180416T083440_20180416T083521_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_220180416T090047_20180416T091107_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_220180416T091247_20180416T092717_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_220180416T094735_20180416T095631_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_220180416T100010_20180416T100458_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_220180416T104345_20180416T110642_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_220180416T112009_20180416T114627_C001	(Retracker 2) 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_220180416T120952_20180416T121034_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_220180416T122030_20180416T124616_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_220180416T125314_20180416T125641_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180416T125955_20180416T131109_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_220180416T135718_20180416T141510_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_220180416T142751_20180416T143341_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180416T143348_20180416T143543_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180416T143901_20180416T150247_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_220180416T150257_20180416T151252_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_220180416T152619_20180416T152717_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_220180416T154832_20180416T160519_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_220180416T161833_20180416T164046_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_220180416T170427_20180416T170652_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_220180416T171652_20180416T172148_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_220180416T172326_20180416T174345_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_220180416T174909_20180416T175135_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180416T175831_20180416T182950_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_220180416T184719_20180416T190634_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_220180416T190645_20180416T191928_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_220180416T192846_20180416T193042_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180416T193731_20180416T195307_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_220180416T195510_20180416T200509_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_220180416T203130_20180416T204346_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_220180416T210715_20180416T211003_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220180416T211656_20180416T213134_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_220180416T213313_20180416T213444_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

Comparing the Comparing of Comparing the C	00.0551.015.15M.0004004407504005.00404407704044.0044	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Complete	CS_OFFL_SIR_LRM_220180416T221835_20180416T224241_C001	Error (Retracker 2)	records
Significance of the company of the c	CS_OFFL_SIR_LRM_220180416T224515_20180416T225351_C001		·
This   Content	CS_OFFL_SIR_LRM_220180416T225622_20180416T232129_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
Early CREAGE 2)  COUNT, SIR DR. 2. 20090410700000 20080410701000 COUNTY  COUNT, SIR DR. 2. 20090410700000 2008041070000 COUNTY  COUNT, SIR DR. 2. 20090410700000 2009041070000 COUNTY  COUNT, SIR DR. 2. 200904107000000 2009041070000 COUNTY  COUNT, SIR DR. 2. 200904107000000 2009041070	CS_OFFL_SIR_LRM_220180416T233125_20180416T233203_C001	Error (Retracker 2)	records
Mode Use abused on the control of th	CS_OFFL_SIR_LRM_220180416T235610_20180417T000800_C001	Error (Retracker 2)	records
Security Company   Compa	CS_OFFL_SIR_SIN_220180416T002439_20180416T002511_C001		Model was used for one or more records
Section (1997), 1997, 2019 (1997) (19	CS_OFFL_SIR_SIN_220180416T011416_20180416T011537_C001	SARIn X-track Angle Error	records
Section County Section 1 (2016) A process of the county of	CS_OFFL_SIR_SIN_220180416T011619_20180416T011819_C001	SARIn X-track Angle Error	
Schelle, Stelle, 2. Deleter (1995) 2. 201004 (1995) 2. 20	CS_OFFL_SIR_SIN_220180416T012421_20180416T012551_C001	SARIn X-track Angle Error	records
Section 1 (2014) 19 (1914) 2010441704032 2010441704037 (2001) 2010441704	CS_OFFL_SIR_SIN_220180416T025405_20180416T025727_C001	SARIn X-track Angle Error	records
Segment places and processes a	CS_OFFL_SIR_SIN_220180416T030251_20180416T030409_C001	SARIn X-track Angle Error	records
SATION AND ADMINISTRATION OF THE PROPERTY OF T	CS_OFFL_SIR_SIN_220180416T043302_20180416T043623_C001	SARIn X-track Angle Error	records
CS_CPFL_SIN_SIN_2_20004167003012_201004167003012_0010  ASAIR Xinted Angle Error  An ambiguous angle was detected for SARIn mote for one or more  Askin Xinted Angle Error  An ambiguous angle was detected for SARIn mote for one or more  Askin Xinted Angle Error  An ambiguous angle was detected for SARIn mote for one or more  Askin Xinted Angle Error  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  Askin Xinted Angle Error  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote and ro DEM or Sityle  Model travelable  An ambiguous angle was detected for SARIn mote and ro DEM or Sityle  Model travelable  An ambiguous angle was detected for SARIn mote and ro DEM or Sityle  Model travelable  An ambiguous angle was detected for SARIn mote for one or more  An ambiguous angle was detected for SARIn mote for one or more  Anne ambiguous angle was detected for SARIn mote for one or more  Anne ambiguous angle was detected for SARIn mote for one or more  Anne ambiguous angle was detected for SARIn mote for one or more  Anne ambiguous angle was detected for SARIn mote for one or more  Anne ambiguous angle was detected for SARIn mote for one or more  Anne ambiguous angle was detected for SARIn mote for o	CS_OFFL_SIR_SIN_220180416T044143_20180416T044307_C001	SARIn X-track Angle Error	records
Sc. OFFL, Sink St. 2_2006418700404 (2004419705040 C001  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode for one or more construction.  SARIN Accords Angle Error  SARIN Accords Angle Error  An ambiguous angle was delected for SARin mode	CS_OFFL_SIR_SIN_220180416T052233_20180416T052517_C001	SARIn X-track Angle Error	
C. CPFL_SIR_SIN_2_20180418700319_20180419770130_0001  SARIN Xirack Angle Error An antibipouse argie was desicted for SARIN mode for one or more records  SARIN Xirack Angle Error An antibipouse argie was desicted for SARIN mode for one or more records  CO_OPFL_SIR_SIN_2_201804187070319_20180419770319_0001  SARIN Xirack Angle Error An antibipouse argie was desicted for SARIN mode for one or more records  SARIN Xirack Angle Error An antibipouse argie was desicted for SARIN mode for one or more records  SARIN Xirack Angle Error CO_OPFL_SIR_SIN_2_20180418707392_20180419707392_001  SARIN Xirack Angle Error CO_OPFL_SIR_SIN_2_20180418707393_20180419707392_001  SARIN Xirack Angle Error CO_OPFL_SIR_SIN_2_201804187084192000000000000000000000000000000000000	CS_OFFL_SIR_SIN_220180416T060931_20180416T061132_C001	SARIn X-track Angle Error	records
SAME ATTEMA Angle Error  CS_OFFL_SIR_SIN_2_D01044167074502_201804167074013_C001  SARIN Xirack Angle Error  SARIN Xirack An	CS_OFFL_SIR_SIN_2_20180416T062014_20180416T062145_C001	SARIn X-track Angle Error	records
Scort S. S. S. R. 2. 20180416707602 20190416707502 2010  SARIN Xirack Angle Error  SARIN Xirack	CS_OFFL_SIR_SIN_2_20180416T065906_20180416T070009_C001	SARIn X-track Angle Error	records
SOPEL, SIR, SIN, 2, 20180416T1075592, 20180416T1075940, C001  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  An ambiguous angle was detected for SARIo mode for one or more records  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error, Surface  An ambiguous angle was detected for SARIo mode for one or more records  An ambiguous angle was detected for SARIo mode for one or more records  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error, Surface  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  SARIO X/1004 Angle Error  An ambiguous angle was detected for SARIo mode for one or more records  SARIO X/1004 Angle Error  SARIO X/1004 Angle Error  An ambiguous angle was detec	CS_OFFL_SIR_SIN_2_20180416T070315_20180416T070418_C001	SARIn X-track Angle Error	records
SARIN X Bas Angle Error  SARIN X Bas Angle Err	CS_OFFL_SIR_SIN_2_20180416T074835_20180416T075013_C001	SARIn X-track Angle Error	records
SARIA X-track Angle Error  CS_OFFL_SIR_SIN_2_20180416709478_20180416709439_C001  SARIA X-track Angle Error  CS_OFFL_SIR_SIN_2_20180416709438_20180416709439_C001  SARIA X-track Angle Error  SARIA X-track Angle E	CS_OFFL_SIR_SIN_220180416T075558_20180416T075602_C001	SARIn X-track Angle Error	records
Secret Name Analysis Control (1985) (	CS_OFFL_SIR_SIN_220180416T075736_20180416T075940_C001	SARIn X-track Angle Error	
Model Was steed for one or more records  SARIN X-track Angle Error  SARIN X	CS_OFFL_SIR_SIN_220180416T083759_20180416T083916_C001	-	records
SARIN X-frack Angle Error  SARIN X-frack Angle E	CS_OFFL_SIR_SIN_220180416T084116_20180416T084332_C001		Model was used for one or more records
Series Sirk 2_201804161704462_01804161704475_0001  SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambiguous angle was detected for SARID mode for one or more records. SARID X-frack Angle Error An ambigu	CS_OFFL_SIR_SIN_220180416T092748_20180416T092936_C001	SARIn X-track Angle Error	records
Model Unavailable  Model Unavail	CS_OFFL_SIR_SIN_220180416T093618_20180416T094312_C001	-	records
CS_OFFL_SIR_SIN_2_201804167111345_2018041671114100_CO01  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  CS_OFFL_SIR_SIN_2_201804167111400_CO01  SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records  CS_OFFL_SIR_SIN_2_201804167111400_CO01  SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode for one or more records  CS_OFFL_SIR_SIN_2_201804167124616_20180416712580_CO01  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	CS_OFFL_SIR_SIN_220180416T094436_20180416T094735_C001		Model was used for one or more records
SARIN X-track Angle Error records  SARIN X-track An	CS_OFFL_SIR_SIN_220180416T110653_20180416T111009_C001	SARIn X-track Angle Error	records
CS_OFF_SIR_SIN_2_20180416T111405_20180416T114155_C001  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  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  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  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  SA	CS_OFFL_SIR_SIN_220180416T111354_20180416T111400_C001	SARIn X-track Angle Error	records
SARIN X-track Angle Error  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  may be sarily a saril	CS_OFFL_SIR_SIN_220180416T111409_20180416T111415_C001	SARIn X-track Angle Error	records
SARIN X-track Angle Error  SARIN X-track Angle E	CS_OFFL_SIR_SIN_220180416T111708_20180416T111915_C001	SARIn X-track Angle Error	records
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  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 rec	CS_OFFL_SIR_SIN_220180416T124616_20180416T124751_C001	SARIn X-track Angle Error	records
Model Unavailable  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 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  SARIN X-track Angle Error  SARIN X-track An	CS_OFFL_SIR_SIN_220180416T125641_20180416T125805_C001	-	records
SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20180416T143548_20180416T143548_C001  SARIN X-track Angle Error  SARIN X-track Angle	CS_OFFL_SIR_SIN_220180416T134504_20180416T134539_C001	9	Model was used for one or more records
SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error records  An ambiguous angle was detected for SARIn mode for one or more recor	CS_OFFL_SIR_SIN_220180416T142626_20180416T142751_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T160554_20180416T160721_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	CS_OFFL_SIR_SIN_220180416T143342_20180416T143348_C001	SARIn X-track Angle Error	records
SARIN X-track Angle Error 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 was detected for SARIn mode for one or more records  An ambiguous angle was detected for SARIn mode for one or more reco	CS_OFFL_SIR_SIN_220180416T143543_20180416T143656_C001	SARIn X-track Angle Error	records
SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20180416T174605_20180416T174908_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 detec	CS_OFFL_SIR_SIN_220180416T160554_20180416T160721_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T174908_20180416T175650_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 detec	CS_OFFL_SIR_SIN_220180416T161233_20180416T161535_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T192612_20180416T192846_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	CS_OFFL_SIR_SIN_220180416T174605_20180416T174908_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T192612_20180416T192846_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	CS_OFFL_SIR_SIN_220180416T175135_20180416T175650_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T193043_20180416T193230_C001  CS_OFFL_SIR_SIN_2_20180416T193043_20180416T193713_C001  CS_OFFL_SIR_SIN_2_20180416T193546_20180416T193713_C001  CS_OFFL_SIR_SIN_2_20180416T202121_20180416T202236_C001  CS_OFFL_SIR_SIN_2_20180416T202434_20180416T202713_C001  CS_OFFL_SIR_SIN_2_20180416T202434_20180416T202713_C001  CS_OFFL_SIR_SIN_2_20180416T201111_20180416T20713_C001  CS_OFFL_SIR_SIN_2_20180416T210111_20180416T210715_C001  CS_OFFL_SIR_SIN_2_20180416T211004_20180416T210116_C001  CS_OFFL_SIR_SIN_2_20180416T211004_20180416T211016_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T21106_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T21106_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T21106_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T21106_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T21106_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T220304_C001  CS_OFFL_SIR_SIN_2_20180416T220045_20180416T220304_C001  CS_OFFL_SIR_SIN_2_20180416T20045_20180416T20045_20180416T20045_20180416T20045_20180416T20045_20180416T20045_20180416T20045_20180416T20045_20180416T2	CS_OFFL_SIR_SIN_220180416T184233_20180416T184632_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T193043_20180416T193713_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	CS_OFFL_SIR_SIN_220180416T192612_20180416T192846_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T202121_20180416T202236_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	CS_OFFL_SIR_SIN_220180416T193043_20180416T193230_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T202434_20180416T202713_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	CS_OFFL_SIR_SIN_220180416T193546_20180416T193713_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416T210111_20180416T210715_C001  CS_OFFL_SIR_SIN_2_20180416T211004_20180416T211016_C001  CS_OFFL_SIR_SIN_2_20180416T211004_20180416T211016_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T211629_C001  CS_OFFL_SIR_SIN_2_20180416T211447_20180416T211629_C001  CS_OFFL_SIR_SIN_2_20180416T220045_20180416T220304_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20180416T220045_20180416T220304_C001  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	CS_OFFL_SIR_SIN_220180416T202121_20180416T202236_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_201804161210014_201804161211016_C001  CS_OFFL_SIR_SIN_2_201804167211004_201804167211016_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	CS_OFFL_SIR_SIN_220180416T202434_20180416T202713_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_20180416121104_201804161211016_C001  SARIN X-track Angle Error  CS_OFFL_SIR_SIN_2_20180416T220045_20180416T220304_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	CS_OFFL_SIR_SIN_2_20180416T210111_20180416T210715_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_201804161221044/_201804161220304_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	CS_OFFL_SIR_SIN_220180416T211004_20180416T211016_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_2_201804161224045_201804161220304_C001  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	CS_OFFL_SIR_SIN_220180416T211447_20180416T211629_C001	SARIn X-track Angle Error	records
	CS_OFFL_SIR_SIN_220180416T220045_20180416T220304_C001	SARIn X-track Angle Error	records
	CS_OFFL_SIR_SIN_220180416T224329_20180416T224514_C001	SARIn X-track Angle Error	

CS\_OFFL\_SIR\_SIN\_2\_\_20180416T225351\_20180416T225534\_C001

SARIn X-track Angle Error

An ambiguous angle was detected for SARIn mode for one or more records

CS\_OFFL\_SIR\_SIN\_2\_\_20180416T234015\_20180416T234457\_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	157	157	157	0	0
SIR_LRM_2	156	156	156	0	0
SIR_LRMI2_	156	156	156	0	0
SIR_SAR_1B	108	108	108	0	0
SIR_SAR_2	108	108	108	0	0
SIR_SARI2_	108	108	108	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_SIN_2	109	109	109	0	0
SIR_SINI2	109	109	109	0	0
SIR GDR 2	15	15	15	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:

244