



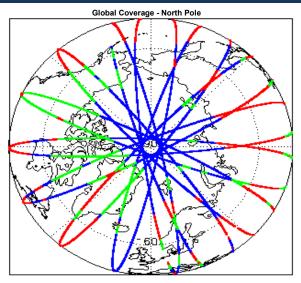
## 1. Overview

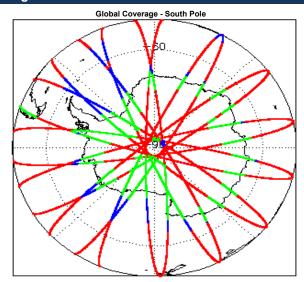
Report Production Date:	03-Apr-2017			
Processor Used:	CryoSat Ice Processor			
Data Used:	L1B and L2 OFFLINE Data			

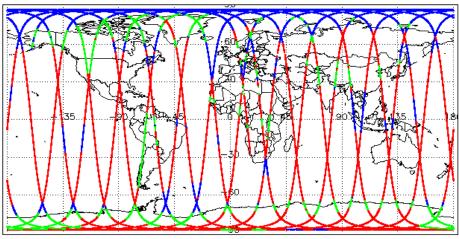
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2 and 5.2
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary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

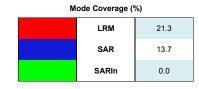
Mission / Inst	rument News
03-Mar-2017	None
04-Mar-2017	None
05-Mar-2017	Nothing planned

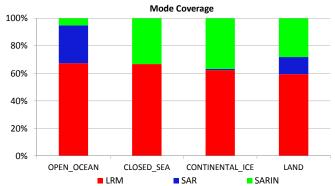
# 2. Global Coverage

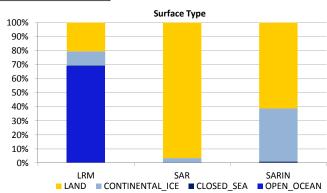












# 3. Instrument Configuration

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_20170304T101949_20170304T101952_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20170304T101955_20170304T101957_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_1B_20170304T120902_20170304T120905_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.

lumber 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.

lumber 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_220170304T101949_20170304T101952_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_220170304T101955_20170304T101957_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_SAR_220170304T120903_20170304T120905_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.

Number of products with errors.		
Product	Test Failed	Description
CS_OFFL_SIR_LRM_220170304T002353_20170304T002634_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_220170304T004041_20170304T004920_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_220170304T005206_20170304T011435_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_20170304T012721_20170304T014040_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_220170304T014227_20170304T014944_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_220170304T015030_20170304T015500_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_220170304T020408_20170304T020426_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220170304T022053_20170304T025320_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_220170304T030037_20170304T030315_C001	Surface Model Unavailable Height Error (Retracker 2), Backscatter	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
CS_OFFL_SIR_LRM_220170304T031119_20170304T032347_C001	Error (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_220170304T032359_20170304T034126_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220170304T040244_20170304T041439_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_220170304T041643_20170304T043233_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_20170304T044828_20170304T045854_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_220170304T050513_20170304T051626_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_2_20170304T055640_20170304T061110_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_220170304T062447_20170304T065847_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_220170304T072639_20170304T075121_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_220170304T075805_20170304T080132_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170304T080350_20170304T083301_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_220170304T090325_20170304T093025_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_220170304T093703_20170304T094031_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170304T094341_20170304T095505_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_220170304T100041_20170304T101818_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_220170304T104024_20170304T104054_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_220170304T104238_20170304T105047_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_2_20170304T112257_20170304T115643_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_20170304T122139_20170304T122330_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_220170304T122956_20170304T124919_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_220170304T125114_20170304T125623_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170304T130138_20170304T133620_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_220170304T140058_20170304T140520_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_220170304T140615_20170304T142355_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_220170304T144215_20170304T145816_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_220170304T145819_20170304T145945_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_220170304T150425_20170304T151134_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_220170304T153129_20170304T154913_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_220170304T155041_20170304T160442_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_220170304T162116_20170304T163653_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_220170304T163854_20170304T164817_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_220170304T171609_20170304T172720_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_220170304T174322_20170304T174730_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

Septiment   Company   Co			
Find Teached 2)   Find Teach	CS_OFFL_SIR_LRM_220170304T175039_20170304T175839_C001		'
Face   Company   Face   Company   Face   Company   Face   Company   Face   Company   Face   Company   Face   Fac	CS_OFFL_SIR_LRM_220170304T180028_20170304T181600_C001	Error (Retracker 2)	records
Description of the comment of the co	CS_OFFL_SIR_LRM_220170304T185251_20170304T192648_C001		
Communication   Communicatio	CS_OFFL_SIR_LRM_220170304T193151_20170304T193725_C001		No DEM or Slope Model was used for the location of one or more records
Export   Company   Compa	CS_OFFL_SIR_LRM_220170304T193949_20170304T200508_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
Comparing Mark 2_20170001720142_20170001720400_COMParing Mark 20170001720400_COMParing Mark 201700017204000_COMParing Mark 201700017204000_COMParing Mark 201700017204000_COMParing Mark 2017000172040000_COMParing Mark 2017000172040000000000000000000000000000	CS_OFFL_SIR_LRM_220170304T203643_20170304T204822_C001	Error (Retracker 2)	records
Company   Comp	CS_OFFL_SIR_LRM_220170304T205359_20170304T210524_C001	Error (Retracker 2)	
Compression	CS_OFFL_SIR_LRM_2_20170304T211842_20170304T214043_C001	(Retracker 3), Backscatter Error (Retracker 2)	
C2_OFFRR_SN_2217726470353_2017024122905_CO01  C3_OFFRR_SN_2_217726470353_2017024122905_CO01  C3_OFFRR_SN_2_2177264703523_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703412203_2017024122905_CO01  C3_OFFRR_SN_2_2177264703412203_2017024123905_CO01  C3_OFFRR_SN_2_217726470341220_2017024123905_CO01  C3_OFFRR_SN_2_217726470341220_2017024123905_CO01  C3_OFFRR_SN_2_217726470341220_2017024123905_CO01  C3_OFFRR_SN_2_21772647034120_2017024123905_CO01  C3_OFFRR_SN_2_21772647034120_2017024123905_CO01  C3_OFFRR_SN_2_21772647034120_2017024123905_CO01  C3_OFFRR_SN_2_21772647034117_2017024703403_CO01  C3_OFFRR_SN_2_2177264703410212_2017024123905_CO01  C3_OFFRR_SN_2_217726470341021_2017024123905_CO01  C3_OFFRR_SN_2_2177264703405_201702_CO01  C3_OFFRR_SN_2_217726470340	CS_OFFL_SIR_LRM_220170304T221058_20170304T224436_C001	Error (Retracker 2)	
SCHE, SIR SIR 2, 201700110392 (20170041102909) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110393 (20170041102909) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110393 (20170041102909) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (2017004103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (2017004103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (2017004103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (2017004103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more control.  SCHE, SIR SIR 2, 2017004110391 (20170041103910) CORD SARIN Kees Angle Error An amazona angle was detected for SARIN made for one or more con	CS_OFFL_SIR_LRM_2_20170304T233455_20170304T233646_C001	(Retracker 3), Backscatter Error	
Softer, Sell-Q_20170004103520_20170301703010_00100_0010_00100_00100_00100010001	CS_OFFL_SIR_SIN_220170304T011539_20170304T011956_C001	SARIn X-track Angle Error	
Sec. OFF., Birk St. 2, 20170301703019, 20170301703040, 0001  SARIN X-Rank Angle Even Amerikan Angle Even A	CS_OFFL_SIR_SIN_220170304T012535_20170304T012657_C001	SARIn X-track Angle Error	
Some Antibude angle early  CS_OPPL_SIR_SIN_2_20170304703423_2017030470344. C001  ARRIN Krissk Angle Error  An arribipuous angle was decided for SARIn mode for one or more records  CS_OPPL_SIR_SIN_2_20170304703423_20170304703415. C001  ARRIN Krissk Angle Error  An arribipuous angle was decided for SARIn mode for one or more records  CS_OPPL_SIR_SIN_2_20170304703412_20170304703415. C001  ARRIN Krissk Angle Error  An arribipuous angle was decided for SARIn mode for one or more records  CS_OPPL_SIR_SIN_2_20170304703417_20170304703415. C001  ARRIN Krissk Angle Error  An arribipuous angle was decided for SARIn mode for one or more records.  CS_OPPL_SIR_SIN_2_20170304703417_20170304703415. C001  ARRIN Krissk Angle Error  An arribipuous angle was decided for SARIn mode for one or more records.  CS_OPPL_SIR_SIN_2_20170304703417_2017030470435_C001  ARRIN Krissk Angle Error  An arribipuous angle was decided for SARIn mode for one or more records.  CS_OPPL_SIR_SIN_2_20170304705412_20170304706412_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or more records.  CS_OPPL_SIR_SIN_2_20170304705213_201703047079241_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or more records.  CS_OPPL_SIR_SIN_2_20170304705213_201703047079241_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or or more records.  CS_OPPL_SIR_SIN_2_20170304705213_201703047079241_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or or more records.  CS_OPPL_SIR_SIN_2_20170304705213_201703047079241_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or or more records.  CS_OPPL_SIR_SIN_2_20170304705213_201703047079241_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or or more records.  CS_OPPL_SIR_SIN_2_201703047054724_C001  ARRIV Krissk Angle Error  An arribipuous angle was decided for SARIn mode for or or more records.  CS_OPPL_SIR_SIN_2_201703047179412_C0170	CS_OFFL_SIR_SIN_220170304T020503_20170304T020908_C001	SARIn X-track Angle Error	
Security Set 19 1 2 20170041700417 (20170041704405 C001)  SARIM Xrteak Angle Error An ambiguous angle was detected for SARRIM mode for one or more needs of the control of	CS_OFFL_SIR_SIN_220170304T025329_20170304T025454_C001	SARIn X-track Angle Error	
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SARIN ARROX Angle Error  CS_OFFL_SIR_SIN_2_20170004104411_20170004104438_C001  SARIN Arrox Angle Error  SARIN Arrox Angle	CS_OFFL_SIR_SIN_220170304T034711_20170304T034803_C001	SARIn X-track Angle Error	
CS_OFFL_SIR_SIN_2_20170004T043917_20170304T04395_C001  SARIIN X/text Angle Error  An entriguous angle was delected for SARIII mode for one or more except.  SARIIN X/text Angle Error  An entriguous angle was delected for SARIII mode for one or more except.  SARIII X/text Angle Error  SARIII X/text Angle Error  An entriguous angle was delected for SARIII mode for one or more except.  SARIII X/text Angle Error  An entriguous angle was delected for SARIII mode for one or more except.  SARIII X/text Angle Error  An entriguous angle was delected for SARIII mode for one or more except.  SARIII X/text Angle Error  SARIII X/text Angle Error  An entriguous angle was delected for SARIII mode for one or more except.  SARIII X/text Angle Error  SARIII X	CS_OFFL_SIR_SIN_220170304T043233_20170304T043415_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
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SARIIn X-track Angle Error  SA	CS_OFFL_SIR_SIN_220170304T044117_20170304T044338_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
An ambiguous angle was detected for SARIn mode and no DEM or Stype Model Hava-Railbub Cas, DFFL_SIR_SIN_2_20170034T09132_00101 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T071057_20170034T071122_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T071057_20170034T071125_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T071057_20170034T07143_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T071057_20170034T07149_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T07149_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T07149_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T070543_20170034T080135_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T090313_20170034T080135_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T09031_20170034T0904207_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T09031_20170034T100395_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T100391_20170034T100395_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T100391_20170034T100395_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T11038_20170034T111038_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T11038_20170034T111038_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T11038_20170034T111038_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T11038_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T11038_00110034T12034_0011 SARIn X-track Angle Error Exercise  CS_OFFL_SIR_SIN_2_20170034T14036_00110034T16214_0001 SARIn X-track Angle Error Exercise  CS_OFFL_SI	CS_OFFL_SIR_SIN_220170304T052123_20170304T052418_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
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  SARIN X-track	CS_OFFL_SIR_SIN_220170304T052506_20170304T052718_C001		An ambiguous angle was detected for SARIn mode and no DEM or Slope
SAFIR X-track Angle Error records  SARIR X-track Angle Error records  An ambiguous angle was detected for SARIn mode and no DENI or Slope Model Unavariable records  SARIR X-track Angle Error	CS_OFFL_SIR_SIN_2_20170304T061126_20170304T061331_C001		An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error SARIN X-track Angl	CS_OFFL_SIR_SIN_220170304T062015_20170304T062447_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SARIN X-track Angle Error	CS_OFFL_SIR_SIN_2_20170304T071057_20170304T071129_C001		An ambiguous angle was detected for SARIn mode and no DEM or Slope
SARIN X-track Angle Error SARIN X-track	CS_OFFL_SIR_SIN_220170304T075140_20170304T075413_C001		An ambiguous angle was detected for SARIn mode for one or more
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 and no DEM or Slope Model Unavailable  Model Unavailable  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 fo	CS_OFFL_SIR_SIN_220170304T075743_20170304T075749_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 Angl	CS_OFFL_SIR_SIN_220170304T080133_20170304T080315_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 and no DEM or Stope Model Unavailable (and the same state) and the same state of the saring the same state of	CS_OFFL_SIR_SIN_220170304T093026_20170304T093155_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
SOFFL_SIR_SIN_2_20170304T10291_20170304T110295_0001  SARIN X-track Angle Error Surface Model Unavailable Model Was used for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Error Surface Model Unavailable Error Surface Model Unavailable Model U	CS_OFFL_SIR_SIN_220170304T094031_20170304T094207_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 Error, Surface Model Unavailable  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 Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  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 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  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error  SARIN X-track Angle Er	CS_OFFL_SIR_SIN_220170304T102911_20170304T102935_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  SARIN X-track Angle Error  An	CS_OFFL_SIR_SIN_220170304T111038_20170304T111154_C001		An ambiguous angle was detected for SARIn mode for one or more
SAFIN X-track Angle Error, Surface Model was used for one or more records  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records  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 for one or more records  SARIn X-track Angle Error  An ambiguous angle was	CS_OFFL_SIR_SIN_2_20170304T111728_20170304T112046_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
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CS_OFFL_SIR_SIN_2_20170304T124956_20170304T125934_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		SARIn X-track Angle Error, Surface	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  An ambiguous angle was detected for SARIn mode for one or more records  An ambiguous			An ambiguous angle was detected for SARIn mode for one or more
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CS_OFFL_SIR_SIN_2_20170304T143527_20170304T144058_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 ambiguo		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170304T152614_20170304T161234_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 ambiguo		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170304T160959_20170304T161234_C001  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  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 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
CS_OFFL_SIR_SIN_2_20170304T161437_20170304T161541_C001  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error  An ambiguous angle was detected for SARIn mode for one or more records  SARIN X-track Angle Error, Surface  Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope  Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope  Model Unavailable  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_2_20170304T161938_20170304T162116_C001  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error, Surface Model Unavailable  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 and no DEM or Slope Model Unavailable  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 Model Unavailable			An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170304T170518_20170304T170627_C001  SARIn X-track Angle Error  SARIn X-track Angle Error, Surface Model Unavailable  SARIn X-track Angle Error, Surface Model Unavailable  SARIn X-track Angle Error  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170304T170734_20170304T170900_C001  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  CS_OFFL_SIR_SIN_2_20170304T172741_20170304T174322_C001  SARIN X-track Angle Error, Surface Model Unavailable  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 and no DEM or Slope Model Unavailable  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
CS_OFFL_SIR_SIN_2_20170304T172741_20170304T174322_C001  SARIN X-track Angle Error, Surface Model Unavailable  SARIN X-track Angle Error, Surface Model was used for one or more records  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 for one or more records  An ambiguous angle was detected for SARIn mode for one or more more records  SARIN X-track Angle Error  SARIN X-track Angle Error, Surface Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode for one or more more more more more more records		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170304T174817_20170304T175039_C001  SARIn X-track Angle Error  SARIn X-track Angle Error, Surface Model Unavailable  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 Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable		SARIn X-track Angle Error, Surface	An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_2_20170304T175840_20170304T180028_C001  SARIn X-track Angle Error  SARIn X-track Angle Error  SARIn X-track Angle Error, Surface Model Unavailable  SARIn X-track Angle Error, Surface Model Unavailable  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 Model was used for one or more records			
CS_OFFL_SIR_SIN_220170304T184435_20170304T185028_C001  CS_OFFL_SIR_SIN_220170304T184435_20170304T185028_C001  SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error Model Unavailable  An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable  An ambiguous angle was detected for SARIn mode for one or more		-	records
Model Unavailable  Model was used for one or more records  An ambiguous angle was detected for SARIn mode for one or more		ŭ .	records
		Model Unavailable	
CS_OFFL_SIR_SIN_2_20170304T192727_20170304T192915_C001 SARIn X-track Angle Error records	CS_OFFL_SIR_SIN_220170304T192727_20170304T192915_C001	SARIn X-track Angle Error	

CS_OFFL_SIR_SIN_220170304T193123_20170304T193150_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T193725_20170304T193949_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T201807_20170304T201827_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_220170304T201924_20170304T201955_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_220170304T210654_20170304T210836_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T210943_20170304T211123_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T211603_20170304T211643_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T211720_20170304T211842_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T224701_20170304T225032_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170304T225605_20170304T225720_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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_LRM_1B	159	159	159	0	0
SIR_LRM_2	157	157	157	0	0
SIR_LRMI2_	157	157	157	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	104	104	104	0	0
SIR_SIN_2	104	104	104	0	0
SIR_SINI2	104	104	104	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:

97