



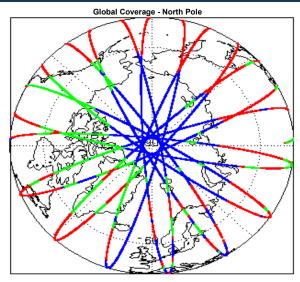
### 1. Overview

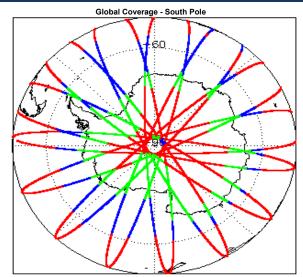
Report Production Date:	19-Dec-2016		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

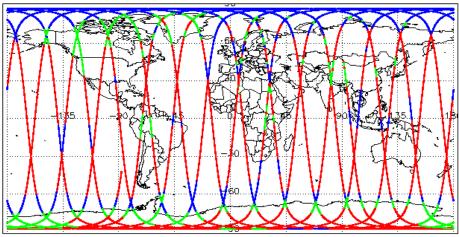
Check	Status	
Server check: science-pds.cryosat.esa.int	Nominal	
Server check: calval-pds.cryosat.esa.int	Nominal	
Product Software Check	Nominal	
Product Format Check	Nominal	
Product Header Analysis	See Section 4.2	
Star Tracker Usage Check	Nominal	
L1B Calibration Usage Check	Nominal	
L1B & L2 Auxiliary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

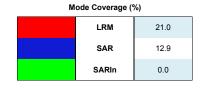
Mission / Instrument News		
17-Nov-2016	None	
18-Nov-2016	None	
19-Nov-2016	Nothing planned	

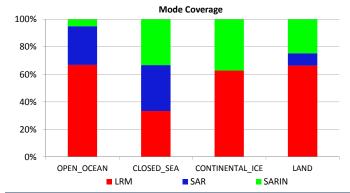
## 2. Global Coverage

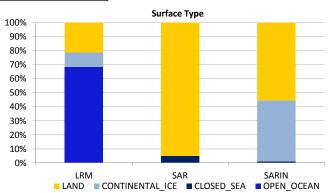












## 3. Instrument Configuration

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:

Product	Test Failed
CS_OFFL_SIR_SAR_1B_20161118T110735_20161118T110736_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

#### 4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

Number of products with errors:

#### 4.5 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.6 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.7 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20161118T040550_20161118T040650_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20161118T2011113_20161118T202544_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20161118T223936_20161118T225555_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

#### 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.

The part of production 2. Debicosing  Sport Land 2. Debicosing  Sport	Product	Test Failed	Description
COURTS ARE USED 2 DESCRIPTIONED 20161118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700002 2016118700000 2016187000000 2016187000000 2016187000000 201618700000 2016187000000 2016187000000 2016187000000 20	CS_OFFL_SIR_LRM_220161118T000857_20161118T001743_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Seguit from phresident 2. Seguit from phresi	CS_OFFL_SIR_LRM_220161118T002055_20161118T004444_C001		
COURTS BRY LAW 2. 2001111900022. 2010119100227 COST  Mappi From Procedure 2. Residence of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of the Part of Secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more control of Secretary 2 for secretary 2 for or more contro	CS_OFFL_SIR_LRM_220161118T011054_20161118T014415_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
The set always and absolute arm for federate 2 or	CS_OFFL_SIR_LRM_220161118T020020_20161118T022855_C001		
Exercise   Proceedings   Processes   Pro	CS_OFFL_SIR_LRM_220161118T025224_20161118T030727_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
SQ GFL SIR LIAM 2_000011911000000_0001 SQ GFL SIR LIAM 2_00001191000000_00011911000000_0001 SQ GFL SIR LIAM 2_000011910000000001191000000_0001 SQ GFL SIR LIAM 2_000011910000000001191000000_0001 SQ GFL SIR LIAM 2_00001191000000000000000000000000000000	CS_OFFL_SIR_LRM_220161118T031301_20161118T032216_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
25. G.P.F., S.R. (199. Z. 201911187000002 201911187000000 (20191187000000000000000000000000000000000	CS_OFFL_SIR_LRM_220161118T034649_20161118T035514_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more
SCOPPLIENTLY 2. 20191197199439, 201911971006292 (2011) Proceeds 2. 2 and a height and passessation rate for the relation 2. 2 and a height and passessation rate for	CS_OFFL_SIR_LRM_220161118T040550_20161118T040650_C001	(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
No.   Principate	CS_OFFL_SIR_LRM_220161118T041518_20161118T041617_C001	(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
So Giffe Light Light 2 20091119701921 20091119701975 COD	CS_OFFL_SIR_LRM_220161118T042858_20161118T043956_C001	(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
SportLight Land 2 2016119110922 2016119110922 201611911092 201611911092 201611911092 201611911092 201611911092 201611911092 20161191109309 20	CS_OFFL_SIR_LRM_220161118T044007_20161118T050227_C001		
Section   Part	CS_OFFL_SIR_LRM_220161118T052112_20161118T054035_C001		
19. OPFL.SRL_RM2_20161118100822_20161118103233_20161118103233_2016118103233_2016118103233_2016118103233_2016118103233_2016118103333_2016118103333_2016118103333_2016118103333_2016118103333_2016118103333_2016118103333_2016118103333_2016118103333_2016118103333_2016118	CS_OFFL_SIR_LRM_220161118T060707_20161118T061736_C001	Height Error (Retracker 2), Backscatter	
Hegit Envi (Perinder 2), Backscalar for Remover	CS_OFFL_SIR_LRM_220161118T062022_20161118T064134_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
18. GPFL_SIR_LEM_2_201611181073229_20161181074555_0016  18. GPFL_SIR_LEM_2_201611181074551_20161181074555_0016  18. GPFL_SIR_LEM_2_201611181074551_20161181074555_0016  18. GPFL_SIR_LEM_2_201611181074551_20161181074555_0016  18. GPFL_SIR_LEM_2_20161118108209_2016118108209_2016  18. GPFL_SIR_LEM_2_20161118108209_2016118108209_2016  18. GPFL_SIR_LEM_2_20161118108209_2016118108209_2016  18. GPFL_SIR_LEM_2_20161118108209_2016  18. GPFL_SIR_LEM_2_201611181108249_2016  18. GPFL_SIR_LEM_2_201611181108209_2016  18. GPFL_SIR_LEM_2_201611181108209_2016  18. GPFL_SIR_LEM_2_201611181108209_2016  18. GPFL_SIR_LEM_2_201611181108209_2016  18. GPFL_SIR_LEM_2_201611181108209_2016  18. GPFL_SIR_LEM_2_20161118113090_2016  18. GPFL_SIR_L	CS_OFFL_SIR_LRM_220161118T065849_20161118T072313_C001	Height Error (Retracker 2), Backscatter	
Sey OFFL, SIRL, LRM, 2_01611181707462   201611181708204, C001  File (Retracker 2)   Height Error (Retracker 3)   Height Error (Retra	CS_OFFL_SIR_LRM_220161118T073223_20161118T073229_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
(Refractor 2) Seasonater Error (Febractor 2) Seasonater Error	CS_OFFL_SIR_LRM_220161118T074551_20161118T074815_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2)  SCOPEL_SIR_LRM_2_201611181108032_2016111811090855_CO01  SCOPEL_SIR_LRM_2_201611181108031_2016111811090855_CO01  SCOPEL_SIR_LRM_2_201611181109331_2016111811090855_CO01  SCOPEL_SIR_LRM_2_201611181109331_2016111811090855_CO01  SCOPEL_SIR_LRM_2_201611181109331_2016111811090855_CO01  SCOPEL_SIR_LRM_2_201611181109331_201611181109085_CO01  SCOPEL_SIR_LRM_2_201611181109332_201611181109085_CO01  SCOPEL_SIR_LRM_2_201611181109332_201611181109085_CO01  SCOPEL_SIR_LRM_2_201611181109332_201611181109085_CO01  SCOPEL_SIR_LRM_2_2016111811410932_201611181109085_CO01  SCOPEL_SIR_LRM_2_2016111811411419_201611811141908_CO01  SCOPEL_SIR_LRM_2_2016111811411419_20161181114198_CO01  SCOPEL_SIR_LRM_2_2016111811411419_20161181114198_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_20161118113329_CO01  SCOPEL_SIR_LRM_2_201611181131332_20161118113329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181131329_CO01  SCOPEL_SIR_LRM_2_201611181131332_201611181140047_CO01  SCOPEL_SIR_LRM_2_201611181141301_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811410036_CO01  SCOPEL_SIR_LRM_2_2016111811811811400_CO01  SCOPEL_SIR_LRM_2_20161118118114004_CO01  SCOPEL_SIR_LRM_2_20161118118114004_CO01  SCOPEL_SIR_LRM_2_20161118118114004_CO01  SCOPEL_SIR_LRM_2_20161118118114004_CO01  SCOPEL_SIR_LRM_2_2016111811811610604_CO01  SCOPEL_SIR_LRM_2_2016111811811610604_CO01  SCOPEL_SIR_LRM_2_2016111811811610	CS_OFFL_SIR_LRM_220161118T074821_20161118T082043_C001	(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
Error (Retracker 2). Height Er	CS_OFFL_SIR_LRM_220161118T083934_20161118T085201_C001		
(Retracker 3). Backscatter Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 2). Backscatter Error (Retracker 2). Backs	CS_OFFL_SIR_LRM_220161118T085252_20161118T090955_C001		
Sporff_Sir_LRM_2_2016118710623_20161187102847_0001 Sporff_Sir_LRM_2_2016118710623_20161187106247_0001 Sporff_Sir_LRM_2_2016118710623_20161187104621_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104745_20161187104624_0001 Sporff_Sir_LRM_2_20161187104624_0001 Sporff_Sir_LRM_2_20161187104624_0001 Sporff_Sir_LRM_2_20161187104624_0001 Sporff_Sir_LRM_2_20161187104624_0001 Sporff_Sir_LRM_2_20161187104647_0001 Sporff_Sir_LRM_2_20161187104647_0001 Sporff_Sir_LRM_2_20161187104647_0001 Sporff_Sir_LRM_2_20161187104647_0001 Sporff_Sir_LRM_2_20161187104647_0001 Sporff_Sir_LRM_2_20161187104647_0001 Sporff_Sir_LRM_2_20161187104624_001611871004604_0001 Sporff_Sir_LRM_2_20161187104624_001611871004604_0001 Sporff_Sir_LRM_2_20161187104664_0001 Sporff_Sir_LRM_2_	CS_OFFL_SIR_LRM_220161118T093131_20161118T094257_C001	(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
Error (Retracker 2)  S. OFFL_SIR_LRM_2_20161118T103328_20161118T104621_C001  S. OFFL_SIR_LRM_2_20161118T103328_20161118T104621_C001  S. OFFL_SIR_LRM_2_20161118T104745_20161118T104694_C001  S. OFFL_SIR_LRM_2_20161118T14719_20161118T114832_C001  S. OFFL_SIR_LRM_2_20161118T14719_20161118T114832_C001  S. OFFL_SIR_LRM_2_20161118T14719_20161118T114832_C001  S. OFFL_SIR_LRM_2_20161118T14719_20161118T114832_C001  S. OFFL_SIR_LRM_2_20161118T14719_20161118T114832_C001  S. OFFL_SIR_LRM_2_20161118T14719_20161118T131730_C001  S. OFFL_SIR_LRM_2_20161118T132512_20161118T13730_C001  S. OFFL_SIR_LRM_2_20161118T132512_20161118T13450_C001  S. OFFL_SIR_LRM_2_20161118T13252_20161118T13450_C001  S. OFFL_SIR_LRM_2_20161118T134943_20161118T14643_C001  S. OFFL_SIR_LRM_2_20161118T142849_20161118T150844_C001  S. OFFL_SIR_LRM_2_20161118T152556_20161118T152323_C001  S. OFFL_SIR_LRM_2_20161118T152556_20161118T152836_C001  S. OFFL_SIR_LRM_2_20161118T152556_20161118T152836_C001  S. OFFL_SIR_LRM_2_20161118T165250_20161118T152836_C001  S. OFFL_SIR_LRM_2_20161118T165250_20161118T152836_C001  S. OFFL_SIR_LRM_2_20161118T165250_20161118T16402_C001  S. OFFL_SIR_LRM_2_20161118T16402_C001  S. OFFL_SIR_LRM_2_20161118T16402	CS_OFFL_SIR_LRM_220161118T094501_20161118T100002_C001	(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
(Retracker 3). Backscatter Error (Retracker 2). Height Error (Retracker 3). For Eas a height and backscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 2). Height Error (Retracker 3). Backscatter Error (Retracker 3). For Eas a height and backscatter error for Retracker 2 for one or more records.  So OFFL SIR LRM 2 _ 20161118713248 _ 20161118713730 _ 2016  So OFFL SIR LRM 2 _ 20161118713248 _ 20161118713243 _ 2010  So OFFL SIR LRM 2 _ 201611187132493 _ 20161118714091 _ 201611	CS_OFFL_SIR_LRM_220161118T101623_20161118T102847_C001	Error (Retracker 2)	~
(Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3) to row or more records (Retracker 2), Backscatter Error (Retracker 3) to row or more records (Retracker 2), Backscatter Error (Retracker 3) to row or more records (Retracker 2), Backscatter (Retracker 2), Backsc	CS_OFFL_SIR_LRM_220161118T103328_20161118T104621_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
Height Error (Retracker 2). Backscatter Error (Retracker 3). Backs	CS_OFFL_SIR_LRM_220161118T104745_20161118T104954_C001	(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
Error (Retracker 2) Error	CS_OFFL_SIR_LRM_220161118T114719_20161118T114832_C001		No DEM or Slope Model was used for the location of one or more record
Error (Retracker 2)  Surface Model Unavailable  No DEM or Stope Model was used for the location of one or more records  No DEM or Stope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter E	CS_OFFL_SIR_LRM_220161118T115409_20161118T121958_C001	Error (Retracker 2)	records
Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backs	CS_OFFL_SIR_LRM_220161118T125348_20161118T131730_C001		
Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2	CS_OFFL_SIR_LRM_220161118T132617_20161118T132943_C001		No DEM or Slope Model was used for the location of one or more record
(Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height end for Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20161118T142849_20161118T145643_C001  CS_OFFL_SIR_LRM_2_20161118T150516_20161118T150844_C001  CS_OFFL_SIR_LRM_2_20161118T150516_20161118T150844_C001  CS_OFFL_SIR_LRM_2_20161118T150516_20161118T150844_C001  CS_OFFL_SIR_LRM_2_20161118T152856_20161118T152323_C001  CS_OFFL_SIR_LRM_2_20161118T152856_20161118T154647_C001  CS_OFFL_SIR_LRM_2_20161118T152856_20161118T154647_C001  CS_OFFL_SIR_LRM_2_20161118T155859_20161118T160135_C001  CS_OFFL_SIR_LRM_2_20161118T165250_20161118T172638_C001  CS_OFFL_SIR_LRM_2_20161118T165250_20161118T172638_C001  CS_OFFL_SIR_LRM_2_20161118T174027_20161118T174036_C001  CS_OFFL_SIR_LRM_2_20161118T174027_20161118T181402_C001  CS_OFFL_SIR_LRM_2_20161118T174858_20161118T181402_C001  CS_OFFL_SIR_LRM_2_20161118T174858_20161118T181402_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T1814036_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T181932_10161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T1813124_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T192014_20161118T192014_C001  CS_OFFL_SIR_LRM_2_20161118T192014_	CS_OFFL_SIR_LRM_220161118T133329_20161118T134501_C001	Error (Retracker 2)	
(Retracker 3), Backscatter Error (Retracker 2)  (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Bac	CS_OFFL_SIR_LRM_220161118T134943_20161118T140047_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
Height Error (Retracker 2), Backscatter Error (Retracker 3), Backs	CS_OFFL_SIR_LRM_220161118T142849_20161118T145643_C001	(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
records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2)  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 or one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 2). Backscatter Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). Backscatter Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 3). Backscatter Error (Retracker 3 for one or more records  The	CS_OFFL_SIR_LRM_220161118T150516_20161118T150844_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more record
Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Error (Retracker 3), Backscatter Error Error (Retracker 3), Backscatter Error Er	CS_OFFL_SIR_LRM_220161118T151401_20161118T152323_C001		
Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retrac	CS_OFFL_SIR_LRM_220161118T152856_20161118T154647_C001		
Height Error (Retracker 2), Height Error (Retracker 2) and a height error (Retracker 3), Backscatter Error (Retracker 2) and a height error (Retracker 2) and a heigh	CS_OFFL_SIR_LRM_220161118T155859_20161118T160135_C001	Height Error (Retracker 2), Backscatter	
Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 2). Backscatter Error (Retracker 2) and a height error (Retracker 2). Backscatter Error (Retracker 2) and a height error (Retracker 2). Backscatter Error (Retracker 2) and a height error (Retracker 2). Backscatter Error (Retracker 3). Backs	CS_OFFL_SIR_LRM_220161118T165250_20161118T172638_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
Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) and a height error (Retracker 2). There is a height and backscatter error for Retracker 2 for one or more records.  Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2). Height Error (Retra	CS_OFFL_SIR_LRM_220161118T174027_20161118T174036_C001	Height Error (Retracker 2), Backscatter	
Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more record  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracker 2), Backscatte	CS_OFFL_SIR_LRM_220161118T174858_20161118T181402_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_20161118T183124_20161118T190708_C001  (Retracker 3), Backscatter Error (Retracker 2) theight Error (Retracker 2), Backscatter Error (Retracker 3),	CS_OFFL_SIR_LRM_220161118T181932_20161118T182436_C001	,	No DEM or Slope Model was used for the location of one or more record
(Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2)  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error (Retracker		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_2_20161118T201113_20161118T202544_C001    CS_OFFL_SIR_LRM_2_20161118T201113_20161118T202544_C001   There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records.	CS_OFFL_SIR_LRM_220161118T192914_20161118T195211_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
		Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
	00_0112_0II\_ENII_2_201011101201113_201011101202344_0001		for Retracker 3 for one or more records

CC OFFI CID IDM 2 20464440T000FF0 20464440T000222 C004	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220161118T202559_20161118T202623_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records  There is a height and hackgootter error for Petrocker 2, and a height error.
CS_OFFL_SIR_LRM_220161118T202630_20161118T202759_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height 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_220161118T203240_20161118T204404_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_220161118T205941_20161118T211654_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_220161118T211857_20161118T213324_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_220161118T214956_20161118T220505_C001	(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_220161118T220705_20161118T221626_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_220161118T223936_20161118T225555_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_220161118T230119_20161118T231427_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_20161118T231840_20161118T232654_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220161118T234822_20161118T235339_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_SIN_220161118T000718_20161118T000857_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T001743_20161118T001940_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T010355_20161118T010840_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_220161118T014655_20161118T014826_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T015002_20161118T015112_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T015535_20161118T015811_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T032636_20161118T033026_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T033614_20161118T033736_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T050618_20161118T050932_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T051445_20161118T051600_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20161118T064335_20161118T064757_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20161118T065350_20161118T065505_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T073304_20161118T073546_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T073557_20161118T073722_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T082142_20161118T082305_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T083113_20161118T083300_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T090955_20161118T091401_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T091525_20161118T091628_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T100049_20161118T100231_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T100759_20161118T100806_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T100926_20161118T101155_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T105318_20161118T105528_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  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161118T113942_20161118T114158_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_220161118T114833_20161118T115209_C001	SARIn X-track Angle Error SARIn X-track Angle Error, Surface	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
CS_OFFL_SIR_SIN_220161118T123859_20161118T123935_C001	Model Unavailable	Model was used for one or more records  An ambiguous angle was detected for SARIII mode and no Delwior Stope  An ambiguous angle was detected for SARIII mode for one or more
CS_OFFL_SIR_SIN_220161118T131946_20161118T132216_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220161118T132555_20161118T132602_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220161118T132944_20161118T133126_C001	SARIn X-track Angle Error SARIn X-track Angle Error, Surface	records  An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_220161118T141921_20161118T141943_C001	Model Unavailable	Model was used for one or more records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220161118T145847_20161118T150013_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161118T150845_20161118T151025_C001	SARIn X-track Angle Error	records An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161118T163850_20161118T164011_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161118T164539_20161118T164854_C001	SARIn X-track Angle Error SARIn X-track Angle Error, Surface	records An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_2_20161118T173651_20161118T173755_C001	Model Unavailable	Model was used for one or more records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161118T181818_20161118T181931_C001	SARIn X-track Angle Error	records An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220161118T182436_20161118T182753_C001  CS_OFFL_SIR_SIN_2_20161118T195910_20161118T200147_C001	SARIn X-track Angle Error  SARIn X-track Angle Error	records An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2201611181195910_201611181200147_C001  CS_OFFL_SIR_SIN_2_201611181200340_201611181200950_C001	SARIn X-track Angle Error SARIn X-track Angle Error	records An ambiguous angle was detected for SARIn mode for one or more
55_5.72_5.5.5_5.5.7.1077200040_201077107200000_0007	STATE A GON AUGIO ETIO	records

CS_OFFL_SIR_SIN_220161118T205424_20161118T205544_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T205821_20161118T205938_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T213718_20161118T214044_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T214252_20161118T214343_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T214753_20161118T214929_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20161118T223336_20161118T223441_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220161118T223531_20161118T223625_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20161118T231641_20161118T231840_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	156	156	156	0	0
SIR_LRMI2_	156	156	156	0	0
SIR_SAR_1B	102	102	102	0	0
SIR_SAR_2	101	101	101	0	0
SIR_SARI2_	101	101	101	0	0
SIR_SIN_1B	98	98	98	0	0
SIR SIN 2	98	98	98	0	0
SIR_SINI2	98	98	98	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:

86