



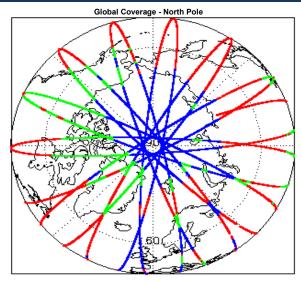
## 1. Overview

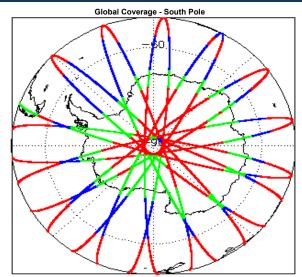
Report Production Date:	19-Nov-2018		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

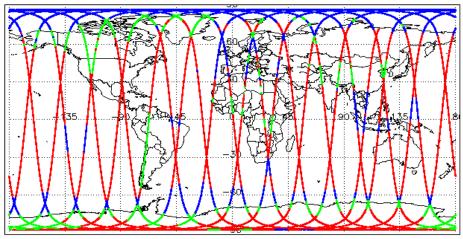
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File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

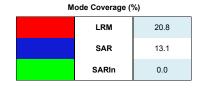
Mission / Inst	rument News
18-Oct-2018	None
19-Oct-2018	None
20-Oct-2018	Nothing planned

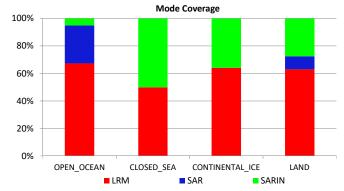
# 2. Global Coverage

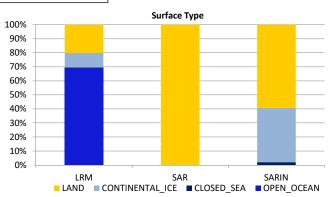












# 3. Instrument Configuration

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

SIRAL - A
SIRAL

## 4. Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

#### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

### 4.4 L1B Calibration Usage Check

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

Number of products with errors: 0

#### 4.5 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.6 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.7 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20181019T223113_20181019T224406_C001	Echo error, TRK echo error	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.

Number of products with errors: 103

Product	Test Failed	Description
	I(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

Co. CHI. BILL 104.2_201010101010102_2010101010202_201010101		Hainht Francy (Datum alson 2) Hainht Francy	1	
SCHOOL BECOME DESCRIPTION CONTRIBUTION CONTR	CS_OFFL_SIR_LRM_2_20181019T005821_20181019T013347_C001	(Retracker 2)		
The Control of Control	CS_OFFL_SIR_LRM_2_20181019T015835_20181019T022044_C001	(Retracker 3), Backscatter Error		
CS_OFF_RE_INIT_2_DISSISTATIONSDISSISTATIONSCOUNTY_NEEDED    Software Name   Software	CS_OFFL_SIR_LRM_2_20181019T023652_20181019T030502_C001			
No. OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  Height films (Plettocks 2), Buddecidate in the sea in empty and successors onto the filteriors 2 for one or more incode.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIVE 2019.  CRI, OFT., SRI, LINE 2, 2019 DISTORTIVE 2019 DISTORTIV	CS_OFFL_SIR_LRM_220181019T033639_20181019T040017_C001	(Retracker 3), Backscatter Error		
Eq. OPP., Seq. 1961, 2001 1010 TAXABLE 2011 TAXABL	CS_OFFL_SIR_LRM_2_20181019T040857_20181019T041225_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Exp (Petrodox 2)  Exp (Petrodo	CS_OFFL_SIR_LRM_2_20181019T041703_20181019T042701_C001			
Section 1. Section 1. 2. Additional between the control of the con	CS_OFFL_SIR_LRM_220181019T043238_20181019T045014_C001			
CB_OFFL_SRL_IRM_2_201010167102032_20101017102032_0010107107102032_0010107107102032_0010107107102032_0010107107102031_0010107107102032_0010107107102032_0010107107102032_0010107107102032_0010107107102032_0010107107102032_0010107107102032_0010107107107102031_0010107107102032_0010107107107102031_0010107107102032_0010107107107102031_0010107107102031_0010107107107107107107107107107107107107	CS_OFFL_SIR_LRM_2_20181019T050203_20181019T050440_C001			
They is a legist contribution from the contr	CS_OFFL_SIR_LRM_220181019T051543_20181019T052223_C001	(Retracker 3), Backscatter Error		
CS_OFFL_SRL_PM_2_20181019T082945_20181019T08294_C001  CS_OFFL_SRL_PM_2_20181019T082945_20181019T08292_C001  CS_OFFL_SRL_PM_2_20181019T082945_20181019T08292_C001  CS_OFFL_SRL_PM_2_20181019T082945_20181019T08292_C001  CS_OFFL_SRL_PM_2_20181019T082945_20181019T08297_C001  CS_OFFL_SRL_PM_2_20181019T082945_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T072817_C001  CS_OFFL_SRL_PM_2_20181019T07298_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T08290_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T082905_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T1908290_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T1908290_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T1908290_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T1908290_20181019T082905_C001  CS_OFFL_SRL_PM_2_20181019T1909405_20181019T0940500_C001  CS_OFFL_SRL_PM_2_20181019T1909405_20181019T1909405_C001  CS_OFFL_SRL_PM_2_20181019T1190940_20181019T19190000000000000000000000000000	CS_OFFL_SIR_LRM_2_20181019T054347_20181019T054921_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Enro (Retracker 2)  CS_OFFL_SIR_LRM_2_20181091705193_00181019706232_0019  SofFL_SIR_LRM_2_20181091705193_00181019707387_0019  Feight Enro (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  Feight Enro (Retracker 2), Backscatter records  There is a height and backscatter error for Retracker 2 for one or more records  Feight Enro (Retracker 2), Backscatter records  Feight Enro (Retracker 2), Bac	CS_OFFL_SIR_LRM_220181019T055701_20181019T062933_C001	(Retracker 3), Backscatter Error		
Envi (Retasker 2)  S. OFFL, SIR, LRM, 2, 2018101917094131, 2018101917094331, 0001  Surface Model Unaveilable  Soffl, SIR, LRM, 2, 2018101917072312, 2018101917072817, 0001  Surface Model Unaveilable  Soffl, SIR, LRM, 2, 2018101917072303, 2018101917072817, 0001  Surface Model Unaveilable  Soffl, SIR, LRM, 2, 2018101917072303, 201810191702313, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082303, 201810191708240, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917082715, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917082715, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917082715, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917085715, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917085715, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917080647, 0001  CS, OFFL, SIR, LRM, 2, 2018101917082525, 2018101917080657, 0001  CS, OFFL, SIR, LRM, 2, 2018101917080522, 2018101917080567, 0001  CS, OFFL, SIR, LRM, 2, 2018101917080522, 2018101917080568, 0001  CS, OFFL, SIR, LRM, 2, 2018101917090522, 2018101917080568, 0001  CS, OFFL, SIR, LRM, 2, 20181019171090522, 2018101917080568, 0001  CS, OFFL, SIR, LRM, 2, 2018101917102525, 2018101917080569, 0001  CS, OFFL, SIR, LRM, 2, 2018101917102525, 201810191708057, 0001  CS, OFFL, SIR, LRM, 2, 2018101917102533, 20181091708057, 0001  CS, OFFL,	CS_OFFL_SIR_LRM_2_20181019T062945_20181019T063112_C001			
Error (Retrocker 2)  Surface Model Unavailable  Surface Model Unavailable  No DEM or Stope Model was used for the location of one or more records  Retrocker 2, Backscatter  From (Retrocker 2, Backscatter  From (Retrocker 2), Backsc	CS_OFFL_SIR_LRM_220181019T063150_20181019T063229_C001			
CS_OFFL_SIR_LRM_2_20181019T07238_20181019T072387_C001  Surface Model Unavailable  No_DEM or Stope Model was used for the location of one or more records  Height Error (Retracker 2), Backscatter Erro	CS_OFFL_SIR_LRM_2_20181019T064131_20181019T064331_C001			
Height Error (Retracker 2), Backscatter Error (Retracker 2), Backs	CS_OFFL_SIR_LRM_2_20181019T070152_20181019T071743_C001			
Ecro (Retracker 2) error (	CS_OFFL_SIR_LRM_220181019T072308_20181019T072817_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_2_20181019T083255_20181019T08375_C001  CS_OFFL_SIR_LRM_2_20181019T083811_20181019T085547_C001  CS_OFFL_SIR_LRM_2_20181019T083811_20181019T085547_C001  CS_OFFL_SIR_LRM_2_20181019T080650_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090720_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090506_C001  CS_OFFL_SIR_LRM_2_20181019T080502_20181019T090506_C001  CS_OFFL_SIR_LRM_2_20181019T100254_20181019T102050_C001  CS_OFFL_SIR_LRM_2_20181019T100254_20181019T10213_C001  CS_OFFL_SIR_LRM_2_20181019T102234_20181019T102310_C001  CS_OFFL_SIR_LRM_2_20181019T102234_20181019T10250_C001  CS_OFFL_SIR_LRM_2_20181019T102234_20181019T10250_C001  CS_OFFL_SIR_LRM_2_20181019T105224_20181019T10550_C001  CS_OFFL_SIR_LRM_2_20181019T11050_20181019T11050_C001  CS_OFFL_SIR_LRM_2_20181019T111050_20181019T11050_C001  CS_OFFL_SIR_LRM_2_20181019T111050_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T111050_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T111050_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T112034_20181019T112033_C001  CS_OFFL_SIR_LRM_2_20181019T112034_20181019T120333_C001  CS_OFFL_SIR_LRM_2_20181019T112034_20181019T120333_C001  CS_OFFL_SIR_LRM_2_20181019T112034_20181019T120333_C001  CS_OFFL_SIR_LRM_2_20181019T12234_20181019T120333_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T14034_20181019T14031	CS_OFFL_SIR_LRM_220181019T073516_20181019T081105_C001			
CS_OFFL_SIR_LRM_2_20181019T08325_20181019T085375_C001  Refrancker 3), Backscatter Error (Retracker 2) and a height error (Retracker 2). Backscatter Error (Retracker	CS_OFFL_SIR_LRM_220181019T082050_20181019T082240_C001			
Error (Retracker 2) Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Re	CS_OFFL_SIR_LRM_220181019T083255_20181019T083715_C001	(Retracker 3), Backscatter Error		
Height Error (Retracker 2), Height Error (Retracker 3) and sackscatter error for Retracker 2 and a height error (Retracker 2). Height Error (Retracker 3) and sackscatter error for Retracker 2 and a height error (Retracker 3). Backscatter Error (Retracker 3). Height Error (Retracker 3). Backscatter Error (Retracker 2). Backscatter Error (Retracker 3). Frame is a height and backscatter error for Retracker 2 and a height error (Retracker 3). Backscatter Error (Retracker 3). Height Error (Retracker 3). Backscatter Error (Retra	CS_OFFL_SIR_LRM_220181019T083811_20181019T085547_C001			
(Retracker 3), Backscatter Error (Retracker 2)  CS_OFFL_SIR_LRM_2_20181019T093623_20181019T1095056_C001  (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3, Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Erro	CS_OFFL_SIR_LRM_2_20181019T090520_20181019T090720_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
Height Error (Retracker 2). Height Error (Retracker 2) and a height error for Retracker 2 and a height error for Retracker 3 and a height error for Retracker 2 and a height error for Retracker 3 and a height error for Retracke	CS_OFFL_SIR_LRM_220181019T091500_20181019T093143_C001	(Retracker 3), Backscatter Error		
Error (Retracker 2) records  CS_OFFL_SIR_LRM_2_20181019T102236_20181019T103630_C001  CS_OFFL_SIR_LRM_2_20181019T105404_20181019T110850_C001  CS_OFFL_SIR_LRM_2_20181019T1105404_20181019T110850_C001  CS_OFFL_SIR_LRM_2_20181019T11052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T112033_C001  CS_OFFL_SIR_LRM_2_20181019T112234_20181019T112033_C001  CS_OFFL_SIR_LRM_2_20181019T122234_20181019T123033_C001  CS_OFFL_SIR_LRM_2_20181019T122348_20181019T124757_C001  CS_OFFL_SIR_LRM_2_20181019T123348_20181019T124757_C001  CS_OFFL_SIR_LRM_2_20181019T133225_20181019T135732_C001  CS_OFFL_SIR_LRM_2_20181019T14018_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140309_C001  CS_OFFL_SIR_LRM_2_	CS_OFFL_SIR_LRM_220181019T093623_20181019T095056_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20181019T10239_20181019T10850_C001  CS_OFFL_SIR_LRM_2_20181019T105404_20181019T110850_C001  CS_OFFL_SIR_LRM_2_20181019T11052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T114109_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T114109_20181019T115915_C001  CS_OFFL_SIR_LRM_2_20181019T112234_20181019T1120333_C001  CS_OFFL_SIR_LRM_2_20181019T12234_20181019T123033_C001  CS_OFFL_SIR_LRM_2_20181019T12234_20181019T123033_C001  CS_OFFL_SIR_LRM_2_20181019T12234_20181019T123752_C001  CS_OFFL_SIR_LRM_2_20181019T132325_20181019T135732_C001  CS_OFFL_SIR_LRM_2_20181019T140348_20181019T14070_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20	CS_OFFL_SIR_LRM_220181019T100254_20181019T102113_C001			
CS_OFFL_SIR_LRM_2_20181019T1105404_20181019T112016_C001  (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3) for Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001  CS_OFFL_SIR_LRM_2_20181019T114109_20181019T115915_C001  CS_OFFL_SIR_LRM_2_20181019T112234_20181019T1123033_C001  CS_OFFL_SIR_LRM_2_20181019T12234_20181019T123033_C001  CS_OFFL_SIR_LRM_2_20181019T123348_20181019T124757_C001  CS_OFFL_SIR_LRM_2_20181019T123348_20181019T124757_C001  CS_OFFL_SIR_LRM_2_20181019T132225_20181019T135732_C001  CS_OFFL_SIR_LRM_2_20181019T132225_20181019T135732_C001  CS_OFFL_SIR_LRM_2_20181019T140108_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140920_C001  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140920_C001	CS_OFFL_SIR_LRM_220181019T102236_20181019T103630_C001			
CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001  (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Re	CS_OFFL_SIR_LRM_220181019T105404_20181019T110850_C001	(Retracker 3), Backscatter Error		
Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20181019T122234_20181019T123033_C001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  No DEM or Slope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 and a height error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  Surface Model Unavailable  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records  There is a height and backscatter error for Retracker 2 for one or more records	CS_OFFL_SIR_LRM_2_20181019T111052_20181019T112016_C001	(Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20181019T123348_20181019T124757_C001  Height Error (Retracker 2), Backscatter Error (Retracker 2), Height Error (Retracker 2)  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3, Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error for Retracker 3 for one or more records  CS_OFFL_SIR_LRM_2_20181019T140108_20181019T140317_C001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140920_C001  CS_OFFL_SIR_LRM_2_20181019T141356_20181019T143709_C001  Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter E	CS_OFFL_SIR_LRM_220181019T114109_20181019T115915_C001	(Retracker 3), Backscatter Error		
Error (Retracker 2)  Error (Retracker 2)  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), B	CS_OFFL_SIR_LRM_220181019T122234_20181019T123033_C001	,	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_2_20181019T132225_20181019T140317_C001  CS_OFFL_SIR_LRM_2_20181019T140108_20181019T140317_C001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  CS_OFFL_SIR_LRM_2_20181019T140343_20181019T140920_C001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  No DEM or Slope Model was used for the location of one or more records  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), B	CS_OFFL_SIR_LRM_220181019T123348_20181019T124757_C001			
CS_OFFL_SIR_LRM_2_20181019T140108_20181019T140317_C001  Surface Model Unavailable  No DEM or Slope Model was used for the location of one or more records  No DEM or Slope Model was used for the location of one or more records  No DEM or Slope Model was used for the location of one or more records  Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter E	CS_OFFL_SIR_LRM_220181019T132225_20181019T135732_C001	(Retracker 3), Backscatter Error		
CS_OFFL_SIR_LRM_2_20181019T141356_20181019T143709_C001  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220181019T140108_20181019T140317_C001		No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_2_20181019T141356_20181019T143709_C001  (Retracker 3), Backscatter Error (Retracker 2) Inere is a neight and backscatter error for Retracker 3 for one or more records  (Retracker 2) Height Error (Retracker 2), Backscatter  There is a neight and backscatter error for Retracker 2 and a neight error for Retracker 3 for one or more records  There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220181019T140343_20181019T140920_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_2_20181019T150843_20181019T152016_C001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more	CS_OFFL_SIR_LRM_220181019T141356_20181019T143709_C001	(Retracker 3), Backscatter Error		
	CS_OFFL_SIR_LRM_220181019T150843_20181019T152016_C001	Height Error (Retracker 2), Backscatter	· ·	

	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more	
CS_OFFL_SIR_LRM_220181019T152553_20181019T153612_C001	Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records	
CS_OFFL_SIR_LRM_220181019T155249_20181019T161919_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_2_20181019T162727_20181019T163006_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_2_20181019T164300_20181019T171411_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_220181019T180656_20181019T180937_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_20181019T182143_20181019T185429_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_220181019T191212_20181019T192826_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_220181019T195752_20181019T203315_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_20181019T204146_20181019T204544_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records	
CS_OFFL_SIR_LRM_220181019T205105_20181019T211647_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_220181019T213846_20181019T215106_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_20181019T215547_20181019T215709_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_20181019T215716_20181019T221230_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_20181019T223113_20181019T224406_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_220181019T224620_20181019T230511_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_220181019T232541_20181019T233606_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_20181019T233746_20181019T235120_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_220181019T004321_20181019T004522_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T005054_20181019T005101_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T005209_20181019T005643_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T014257_20181019T014329_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_220181019T022334_20181019T022606_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T022936_20181019T022943_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T023327_20181019T023510_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T040218_20181019T040348_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T040850_20181019T040857_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T041225_20181019T041401_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T050109_20181019T050134_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_220181019T054231_20181019T054347_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T054922_20181019T055240_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T064036_20181019T064100_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_220181019T064105_20181019T064131_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_220181019T072148_20181019T072308_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T072817_20181019T073128_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
CS_OFFL_SIR_SIN_220181019T090240_20181019T090519_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records	
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CS_OFFL_SIR_SIN_2_20181019T090720_20181019T091251_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181019T095813_20181019T100254_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181019T104630_20181019T104737_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181019T105132_20181019T105311_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T113716_20181019T113825_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T113935_20181019T114108_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T115936_20181019T121519_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20181019T121921_20181019T122234_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T123034_20181019T123222_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181019T131633_20181019T132224_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_220181019T135919_20181019T140108_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181019T140317_20181019T140342_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181019T140920_20181019T141143_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T145007_20181019T145026_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20181019T145122_20181019T145155_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_220181019T153848_20181019T154029_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T154138_20181019T154317_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T154754_20181019T154849_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T154912_20181019T155035_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T171853_20181019T172226_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T172800_20181019T172916_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T185809_20181019T190129_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T190642_20181019T190807_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T194854_20181019T195014_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T203520_20181019T203757_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T204544_20181019T204652_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T212436_20181019T212534_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T212815_20181019T212924_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T221329_20181019T221509_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T222246_20181019T2222438_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181019T230621_20181019T230838_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_2_20181019T235247_20181019T235434_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

# 6. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	137	137	137	0	0
SIR_LRM_2	137	137	137	0	0
SIR_LRMI2_	137	137	137	0	0
SIR_SAR_1B	89	89	89	0	0
SIR_SAR_2	89	89	89	0	0
SIR_SARI2_	89	89	89	0	0
SIR_SIN_1B	95	95	95	0	0
SIR_SIN_2	95	95	95	0	0
SIR_SINI2	95	95	95	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:

164