



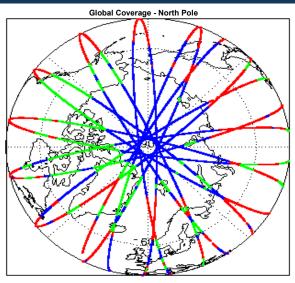
# 1. Overview

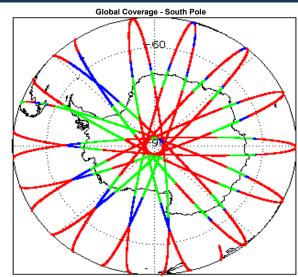
Report Production Date:	30-May-2017	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

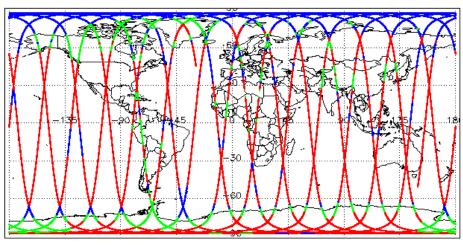
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File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

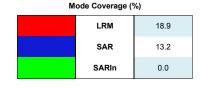
Mission / Instru	ment News
29-Apr-2017	None
30-Apr-2017	None
01-May-2017	Nothing planned

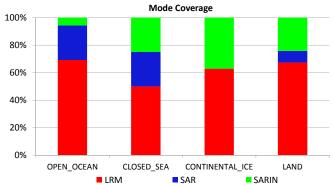
# 2. Global Coverage

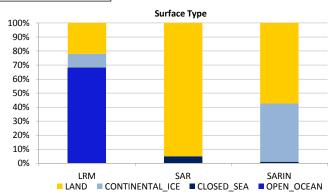












# 3. Instrument Configuration

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

## 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:

#### 4.5 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

#### 4.6 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.7 L1B Measurement Confidence Data Check

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

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

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

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

lumber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20170430T031154_20170430T031852_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_20170430T144554_20170430T145400_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.

lumber of products with errors: 103

	Product	Test Failed	Description
CS OFFE SIR FRM 2 2017/04/3011002408 2017/04/3011003140 C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more	
	Error (Retracker 2)	records	

	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170430T003621_20170430T003743_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records
CS_OFFL_SIR_LRM_220170430T003746_20170430T005349_C001	Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220170430T011144_20170430T012438_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_220170430T012653_20170430T013903_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_220170430T014133_20170430T014246_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_220170430T020614_20170430T021640_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_220170430T021819_20170430T023258_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_220170430T024842_20170430T024940_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_20170430T025736_20170430T030035_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_220170430T030819_20170430T031030_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_220170430T031154_20170430T031852_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_220170430T034901_20170430T035252_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_20170430T035408_20170430T041154_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170430T042547_20170430T045137_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2) Height Error (Retracker 2), Height Error	records  There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220170430T052619_20170430T055139_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220170430T055847_20170430T060212_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170430T062219_20170430T063751_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_220170430T070934_20170430T072324_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_220170430T073312_20170430T074119_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220170430T074431_20170430T081845_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_220170430T083204_20170430T083259_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_220170430T085211_20170430T090129_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_220170430T091249_20170430T091806_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	There is a hairbh and hadron the constant of Debracks O and a hairbh anns
CS_OFFL_SIR_LRM_220170430T092355_20170430T094620_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_220170430T092355_20170430T094620_C001  CS_OFFL_SIR_LRM_220170430T094906_20170430T095824_C001	(Retracker 3), Backscatter Error	
	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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_2_20170430T094906_20170430T095824_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001 CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter	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  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_20170430T094906_20170430T095824_C001 CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001 CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001 CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001 CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001 CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter 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  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_20170430T094906_20170430T095824_C001 CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001 CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001 CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001 CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter	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  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  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  There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001 CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001 CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001 CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001 CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001 CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001 CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2)	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  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  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  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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)  Surface Model Unavailable  Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3)	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  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  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  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 for one or more records
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T133700_20170430T134919_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135936_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T1440723_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T141529_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135936_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)  Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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  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  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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135936_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T141529_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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  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 for one or more records
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T1122444_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135936_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T1122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T142214_20170430T143705_C001  CS_OFFL_SIR_LRM_2_20170430T142214_20170430T144523_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2)	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  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  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  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 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 for one or more records
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T1122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135936_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T1412214_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2)	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  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  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  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 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 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_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T1122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T145246_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T152246_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T142214_20170430T143705_C001  CS_OFFL_SIR_LRM_2_20170430T142845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T1452955_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T152955_C001  CS_OFFL_SIR_LRM_2_20170430T152409_20170430T154804_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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 for one or more records
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T1122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T140723_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T142214_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T152246_C001  CS_OFFL_SIR_LRM_2_20170430T153024_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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 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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T1122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T14301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T152246_C001  CS_OFFL_SIR_LRM_2_20170430T153024_20170430T152955_C001  CS_OFFL_SIR_LRM_2_20170430T153024_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)	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  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  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  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  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  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 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
CS_OFFL_SIR_LRM_2_20170430T094906_20170430T095824_C001  CS_OFFL_SIR_LRM_2_20170430T101027_20170430T101440_C001  CS_OFFL_SIR_LRM_2_20170430T103030_20170430T103511_C001  CS_OFFL_SIR_LRM_2_20170430T103659_20170430T104936_C001  CS_OFFL_SIR_LRM_2_20170430T105406_20170430T105706_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T110325_20170430T113636_C001  CS_OFFL_SIR_LRM_2_20170430T120035_20170430T122444_C001  CS_OFFL_SIR_LRM_2_20170430T124305_20170430T125926_C001  CS_OFFL_SIR_LRM_2_20170430T125936_20170430T131203_C001  CS_OFFL_SIR_LRM_2_20170430T135538_20170430T134919_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T141301_20170430T141529_C001  CS_OFFL_SIR_LRM_2_20170430T142214_20170430T143705_C001  CS_OFFL_SIR_LRM_2_20170430T143845_20170430T144523_C001  CS_OFFL_SIR_LRM_2_20170430T151858_20170430T152246_C001  CS_OFFL_SIR_LRM_2_20170430T153024_20170430T152955_C001  CS_OFFL_SIR_LRM_2_20170430T153024_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001  CS_OFFL_SIR_LRM_2_20170430T155044_20170430T155933_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 2)	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  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  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  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  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 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

	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220170430T191938_20170430T193649_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220170430T193652_20170430T194602_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_220170430T201037_20170430T204515_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_220170430T210743_20170430T211506_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_220170430T213354_20170430T213759_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_220170430T215044_20170430T215923_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_220170430T220209_20170430T222418_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_220170430T225229_20170430T225948_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_220170430T230041_20170430T230504_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_220170430T233057_20170430T234703_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_220170430T234705_20170501T000258_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_2_20170430T000508_20170430T000606_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T000848_20170430T000957_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T005402_20170430T005541_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T010317_20170430T010510_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T014654_20170430T014911_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_220170430T023319_20170430T023506_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20170430T024149_20170430T024842_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T032239_20170430T032751_C001	SARIn X-track Angle Error, Surface	records  An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_220170430T041223_20170430T041515_C001	Model Unavailable SARIn X-track Angle Error	Model was used for one or more records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T041927_20170430T041933_C001	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
CS_OFFL_SIR_SIN_2_20170430T041942_20170430T041948_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T042138_20170430T042438_C001	SARIn X-track Angle Error	records An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T055202_20170430T055316_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T060212_20170430T060331_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_220170430T065227_20170430T065352_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_220170430T073148_20170430T073311_C001	SARIn X-track Angle Error	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T074119_20170430T074231_C001	SARIn X-track Angle Error	records
CS_OFFL_SIR_SIN_220170430T091123_20170430T091249_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T091807_20170430T092113_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T105107_20170430T105406_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T105707_20170430T110045_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T123144_20170430T123419_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T123613_20170430T123843_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T124059_20170430T124238_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T132655_20170430T132815_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T133219_20170430T133338_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T140723_20170430T141300_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T141529_20170430T141555_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T142020_20170430T142159_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T150131_20170430T150216_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_20170430T150627_20170430T150837_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T154907_20170430T155044_C001	SARIn X-track Angle Error	records An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T155933_20170430T160139_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
CS OFFL SIR SIN 2 20170430T164540 20170430T165026 C001	SARIn X-track Angle Error, Surface	records  An ambiguous angle was detected for SARIn mode and no DEM or Slope
CS_OFFL_SIR_SIN_220170430T172842_20170430T173009_C001	Model Unavailable SARIn X-track Angle Error	Model was used for one or more records  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
CS_OFFL_SIR_SIN_2_20170430T173152_20170430T173256_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_2_20170430T173724_20170430T173948_C001	, and the second	records  An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_220170430T190819_20170430T191211_C001	SARIn X-track Angle Error	records

CS_OFFL_SIR_SIN_220170430T191802_20170430T191927_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T195849_20170430T195946_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_220170430T204804_20170430T205117_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T205633_20170430T205743_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T222534_20170430T222953_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T223534_20170430T223656_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170430T231506_20170430T231914_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	116	116	116	0	0
SIR_SAR_2	116	116	116	0	0
SIR_SARI2_	116	116	116	0	0
SIR_SIN_1B	103	103	103	0	0
SIR_SIN_2	103	103	103	0	0
SIR_SINI2	103	103	103	0	0
SIR_GDR_2	13	13	13	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:

170