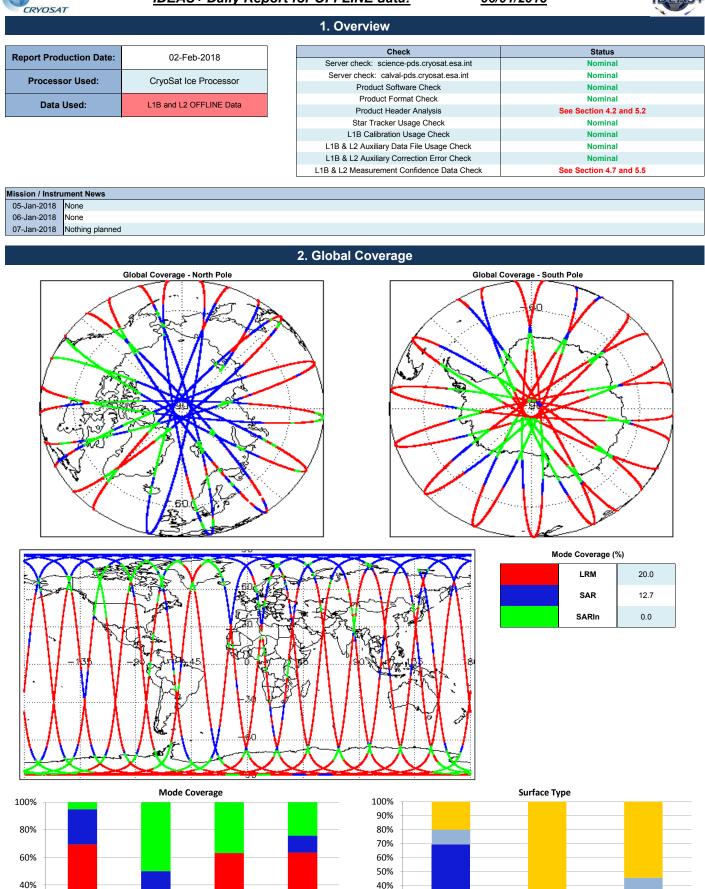


# IDEAS+ Daily Report for OFFLINE data:

<u>06/01/2018</u>



3. Instrument Configuration

LAND

SARIN

30%

20% 10%

0%

LRM SAR SARIN LAND CONTINENTAL\_ICE CLOSED\_SEA OPEN\_OCEAN

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

CLOSED\_SEA

CONTINENTAL\_ICE

SAR

SIRAL instrument(s) in use: SIRAL - A

LRM

OPEN\_OCEAN

20%

0%

# 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	r to identify any inconsistencies and/or errors raised by the ground-segment processing chain.	
Number of products with errors: 1		
Product	Test Failed	
CS_OFFL_SIR_SAR_1B_20180106T105334_20180106T105336_C001	Percentage of processing errors detected greater than minimum acceptable threshold.	

#### 4.3 Star Tracker Usage Check

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

Number of products with errors:

### 4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing. Number of products with errors: 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 Fail	Failed I	Description
CS_OFFL_SIR_LRM_1B_20180106T205244_20180106T205328_C001 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:

Product	Test Failed	
CS_OFFL_SIR_SAR_220180106T105335_20180106T105336_C001	Percentage of processing errors detected greater than minimum acceptable threshold.	

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

# 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

### 5.5 L2 Measurement Quality Flag Check

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

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

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

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

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

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

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.

105

Number of products wi	an errors.	105		
Product				Test Failed Height Error (Retr
CS_OFFL_SIR_LRM_2_	20180106T000925	_20180106T002601	_C001	Error (Retracker 2 Height Error (Retr
CS_OFFL_SIR_LRM_2_	_20180106T002604	_20180106T002714	_C001	Error (Retracker 2 Height Error (Retr
CS_OFFL_SIR_LRM_2_	_20180106T003154	_20180106T003850	_C001	(Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T010018	_20180106T011555	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T012215	_20180106T013353	_C001	Height Error (Retr (Retracker 3), Bac (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T013944	_20180106T014206	_C001	Surface Model Ur
CS_OFFL_SIR_LRM_2_	_20180106T014843	_20180106T020342	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T020521	_20180106T021958	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2	_20180106T024211	_20180106T024921	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T025044	_20180106T025532	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T025823	_20180106T031445	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T031730	_20180106T032610	_C001	Surface Model Ur
CS_OFFL_SIR_LRM_2_	_20180106T032826	_20180106T035101	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T042756	_20180106T045408	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T050651	_20180106T053642	_C001	Height Error (Retr (Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2	_20180106T060423	_20180106T061550	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2	_20180106T062128	_20180106T063213	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T064619	_20180106T070838	_C001	Height Error (Retr (Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T070841	_20180106T071328	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T072341	_20180106T072434	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T073711	_20180106T081200	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T083417	_20180106T083525	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T092844	_20180106T095051	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2	_20180106T100420	_20180106T101719	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T101907	_20180106T102616	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T102700	_20180106T103139	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T105709	_20180106T112957	_C001	Height Error (Retr (Retracker 3), Bac (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T114757	_20180106T121808	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T123843	_20180106T125115	_C001	Height Error (Retr (Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T125320	_20180106T130906	_C001	Height Error (Retr (Retracker 3), Bac (Retracker 2)
CS OFFL SIR LRM 2	20180106T132517	20180106T133533	C001	Height Error (Retr (Retracker 3), Bac
00_0112_0112_1111_2			_0001	(Retracker 2) Height Error (Retr
CS_OFFL_SIR_LRM_2_	_20180106T134152	_20180106T135244	_C001	(Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T142857	_20180106T143139	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T143319	_20180106T144752	_C001	neigni ⊑nor (หย่ม (Retracker 3), Bao ศิลฐ์ก^≿ก₀?∖หย่ม
CS_OFFL_SIR_LRM_2_	_20180106T150137	_20180106T153522	_C001	(Retracker 3), Bac (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T153739	_20180106T153827	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T160317	_20180106T162753	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T164036	_20180106T170945	_C001	Height Error (Retr (Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T173942	_20180106T180652	_C001	Height Error (Retr (Retracker 3), Bao (Retracker 2)
CS_OFFL_SIR_LRM_2_	_20180106T181343	_20180106T181710	_C001	Surface Model Ur
CS_OFFL_SIR_LRM_2_	_20180106T182102	_20180106T183143	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T183720	_20180106T185446	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T191706	_20180106T192212	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T194020	_20180106T194626	_C001	Height Error (Retr Error (Retracker 2
CS_OFFL_SIR_LRM_2_	_20180106T194831	_20180106T195407	_C001	Surface Model Ur

Test Failed	Description
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
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), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
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), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 2)	for Retracker 3 for one or more records
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
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
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)	records
Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
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)	records
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
	•
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
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), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 2)	for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
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)	records
Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
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 Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2) 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
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)	records
Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2) Height Error (Retracker 2), Backscatter	records
Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
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), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 2)	for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Retracker 2)	
(Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2)	
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 2)	for Retracker 3 for one or more records
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retracker 2)	records
(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
หางาน เล่าเล่าเล่า (เล่า เล่า เล่า เล่า เล่า เล่า เล่า เล่า	for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error	for Retracker 3 for one or more records
Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
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), Backscatter	records
Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
(Retracker 2) Height Error (Retracker 2), Height Error	
(Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2)	
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
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 Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
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 Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
	records
Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

Description

CS\_OFFL\_SIR\_LRM\_2\_20180106T200011\_20180106T203317\_C001 CS OFFL SIR LRM 2 20180106T210636 20180106T212546 C001 CS OFFL SIR LRM 2 20180106T213837 20180106T221308 C001 CS OFFL SIR LRM 2 20180106T223736 20180106T224157 C001 CS\_OFFL\_SIR\_LRM\_2\_20180106T224253\_20180106T230031\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180106T231003\_20180106T231205\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180106T231909\_20180106T233854\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180106T234104\_20180106T234817\_C001 CS OFFL SIR SIN 2 20180105T235824 20180106T000058 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T000252\_20180106T000543\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T000727\_20180106T000917\_C001 CS OFFL SIR SIN 2 20180106T005329 20180106T005450 C001 CS\_OFFL\_SIR\_SIN\_2\_20180106T005904\_20180106T010017\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T013354\_20180106T013944\_C001 CS OFFL SIR SIN 2 20180106T014207 20180106T014238 C001 CS OFFL SIR SIN 2 20180106T014701 20180106T014839 C001 CS OFFL SIR SIN 2 20180106T022753 20180106T022855 C001 CS OFFL SIR SIN 2 20180106T023258 20180106T023508 C001 CS OFFL SIR SIN 2 20180106T031548 20180106T031730 C001 CS OFFL SIR SIN 2 20180106T032611 20180106T032815 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T041210\_20180106T041658\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T045523\_20180106T045647\_C001 CS OFFL SIR SIN 2 20180106T045835 20180106T045934 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T050407\_20180106T050626\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T063456\_20180106T063851\_C001 CS\_OFFL\_SIR\_SIN\_2\_20180106T064443\_20180106T064609\_C001 CS OFFL SIR SIN 2 20180106T072554 20180106T072619 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T081445\_20180106T081757\_C001 CS OFFL SIR SIN 2 20180106T082314 20180106T082425 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T095227\_20180106T095639\_C001 CS OFFL SIR SIN 2 20180106T100213 20180106T100338 C001 CS OFFL SIR SIN 2 20180106T104147 20180106T104548 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T113005\_20180106T113139\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T114003\_20180106T114146\_C001 CS OFFL SIR SIN 2 20180106T121809 20180106T121949 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T122350\_20180106T122444\_C001 CS\_OFFL\_SIR\_SIN\_2\_20180106T130910\_20180106T131052\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T131626\_20180106T131633\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T131757\_20180106T132015\_C001 CS OFFL SIR SIN 2 20180106T140146 20180106T140358 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T144810\_20180106T145004\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T145524\_20180106T145530\_C001 CS OFFL SIR SIN 2 20180106T145540 20180106T145546 C001 CS OFFL SIR SIN 2 20180106T145653 20180106T150132 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T154740\_20180106T154813\_C001 CS OFFL SIR SIN 2 20180106T162819 20180106T163049 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T163422\_20180106T163428\_C001 CS OFFL SIR SIN 2 20180106T163812 20180106T163956 C001 CS OFFL SIR SIN 2 20180106T180701 20180106T180832 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180106T181336\_20180106T181342\_C001

Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), 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 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailabl SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error

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 ecords 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 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 An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220180106T181710_20180106T181845_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T194717_20180106T194830_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T195408_20180106T195548_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T195610_20180106T195725_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T204517_20180106T204540_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_220180106T204550_20180106T204613_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_220180106T212631_20180106T212753_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T213302_20180106T213611_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T230718_20180106T231002_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180106T231205_20180106T231733_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	179	179	179	0	0
SIR_LRM_2	178	178	178	0	0
SIR_LRMI2_	178	178	178	0	0
SIR_SAR_1B	122	122	122	0	0
SIR_SAR_2	121	121	121	0	0
SIR_SARI2_	121	121	121	0	0
SIR_SIN_1B	109	109	109	0	0
SIR_SIN_2	109	109	109	0	0
SIR_SINI2	109	109	109	0	0
SIR_GDR_2	14	14	14	0	0

# 6.1 QCC Errors

Number of products with QCC errors:

6.2 QCC Warnings	
Number of QCC reports with warnings	0

0

# 6.2 Missing QCC Reports

Number of products with missing QCC reports: 183