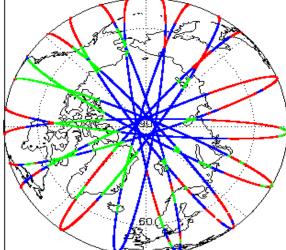
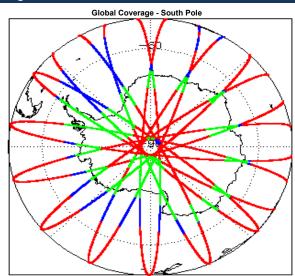


# IDEAS+ Daily Report for OFFLINE data:

<u>31/01/2018</u>

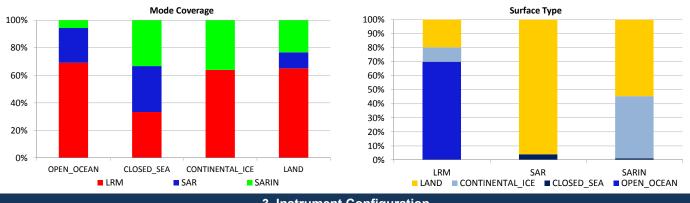
Report Production Date:	02-Mar-2018	Check	Status
Report Production Date.	02-101-2016	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.	Cryodat ice i rocessor	Product Software Check	Nominal
Data Used: L1B and L2 OFFLINE Data		Product Format Check	Nominal
Data Oseu.	LID and LZ OFF LINE Data	Product Header Analysis	See Section 4.2 and 5.2
		Star Tracker Usage Check	Nominal
		L1B Calibration Usage Check	Nominal
		L1B & L2 Auxiliary Data File Usage Check	Nominal
		L1B & L2 Auxiliary Correction Error Check	Nominal
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5
ission / Instrument News 30-Jan-2018 None 31-Jan-2018 None			
01-Feb-2018 Nothing planned			
		2. Global Coverage	
	Global Coverage - North Pole	Global Cove	rage - South Pole
	Global Coverage - North Pole	Global Cove	rage - South Pole





м	ode Coverage (	%)

LRM	19.8
SAR	12.6
SARIn	0.0



3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis			
For all products, a series of pre-defined checks are carried out on the MPH and SPH in orde	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_20180131T173623_20180131T173624_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 process	ing.		
Number of products with errors: 0			
4.4 L1B Calibration Usage Check			

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

Number of products with errors:

#### 4.5 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.6 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.7 L1B Measurement Confidence Data Check

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

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

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

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

#### Number of products with errors:

# 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: 1

Product	Test Failed
CS_OFFL_SIR_SAR_220180131T173623_20180131T173624_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. 0

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

Product CS OFFL SIR LRM 2 20180131T000211 20180131T001311 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T002837\_20180131T004335\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T004514\_20180131T005736\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T012325\_20180131T012919\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T013041\_20180131T013358\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T015730\_20180131T020603\_C001 CS OFFL SIR LRM 2 20180131T020818 20180131T023103 C001 CS OFFL SIR LRM 2 20180131T025655 20180131T025746 C001 CS OFFL SIR LRM 2 20180131T030854 20180131T033406 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T033927\_20180131T034405\_C001 CS OFFL SIR LRM 2 20180131T034645 20180131T041247 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T044551\_20180131T045547\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T052613\_20180131T054809\_C001 CS OFFL SIR LRM 2 20180131T054814 20180131T055405 C001 CS OFFL SIR LRM 2 20180131T060235 20180131T060318 C001 CS OFFL SIR LRM 2 20180131T060331 20180131T060430 C001 CS OFFL SIR LRM\_2\_\_20180131T061715\_20180131T065149\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T070507\_20180131T070748\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T074043\_20180131T074308\_C001 CS OFFL SIR LRM 2 20180131T074421 20180131T074454 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T075718\_20180131T080555\_C001 CS OFFL SIR LRM 2 20180131T080841 20180131T083051 C001 CS OFFL SIR LRM 2 20180131T084409 20180131T085711 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T085859\_20180131T090511\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T090650\_20180131T091133\_C001 CS OFFL SIR LRM 2 20180131T093640 20180131T100949 C001 CS OFFL SIR LRM 2 20180131T102750 20180131T105827 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T111759\_20180131T113204\_C001 CS OFFL SIR LRM 2 20180131T113315 20180131T114859 C001 CS OFFL SIR LRM 2 20180131T120519 20180131T121526 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T122145\_20180131T123252\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T125952\_20180131T130812\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T130853\_20180131T131136\_C001 CS OFFL SIR LRM 2 20180131T131315 20180131T132747 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T134147\_20180131T140522\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T140644\_20180131T141513\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T144433\_20180131T150747\_C001 CS OFFL SIR LRM 2 20180131T152030 20180131T154920 C001 CS OFFL SIR LRM 2 20180131T162017 20180131T164646 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T171712\_20180131T173428\_C001 CS OFFL SIR LRM 2 20180131T175728 20180131T180721 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T182014\_20180131T182618\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T184001\_20180131T191307\_C001 CS OFFL SIR LRM 2 20180131T193429 20180131T193509 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T194634\_20180131T200545\_C001

Test Failed 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) 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 3), Backscatter Error Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) urface Model Unavailable 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), Height 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 2) Height Error (Retracker 2), Height 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 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), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2)

Description 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 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 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 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 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 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 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 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 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 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 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records

There is a height and backscatter error for Retracker 2 for one or more records

CS\_OFFL\_SIR\_LRM\_2\_\_20180131T201832\_20180131T205257\_C001 CS OFFL SIR LRM 2 20180131T211733 20180131T212203 C001 CS OFFL SIR LRM 2 20180131T212250 20180131T214025 C001 CS OFFL SIR LRM 2 20180131T214952 20180131T215159 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T215901\_20180131T222832\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T224756\_20180131T230617\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T230715\_20180131T232047\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T232910\_20180131T233108\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20180131T233753\_20180131T235328\_C001 CS OFFL SIR LRM 2 20180131T235529 20180201T000452 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T001344\_20180131T001941\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T002200\_20180131T002235\_C001 CS OFFL SIR SIN 2 20180131T002656 20180131T002834 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T010748\_20180131T010844\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T011251\_20180131T011504\_C001 CS OFFL SIR SIN 2 20180131T015544 20180131T015730 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T020603\_20180131T020800\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T025204\_20180131T025655\_C001 CS OFFL SIR SIN 2 20180131T033518 20180131T033640 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T033831\_20180131T033927\_C001 CS\_OFFL\_SIR\_SIN\_2\_20180131T034406\_20180131T034622\_C001 CS OFFL SIR SIN 2 20180131T042647 20180131T042709 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T051449\_20180131T051609\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T051621\_20180131T051845\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T052438\_20180131T052606\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T060549\_20180131T060614\_C001 CS OFFL SIR SIN 2 20180131T065439 20180131T065752 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T070310\_20180131T070424\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T083319\_20180131T083638\_C001 CS OFFL SIR SIN 2 20180131T084207 20180131T084332 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T092000\_20180131T092045\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T092223\_20180131T092544\_C001 CS OFFL SIR SIN 2 20180131T100958 20180131T101141 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T102005\_20180131T102147\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T105832\_20180131T110008\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T110344\_20180131T110441\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T114903\_20180131T115045\_C001 CS OFFL SIR SIN 2 20180131T115621 20180131T115628 C001 CS OFFL SIR SIN 2 20180131T115753 20180131T120008 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T124141\_20180131T124355\_C001 CS OFFL SIR SIN 2 20180131T132811 20180131T133000 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T133519\_20180131T133525\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T133534\_20180131T133541\_C001 CS OFFL SIR SIN 2 20180131T133645 20180131T134134 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T150810\_20180131T151042\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T151417\_20180131T151423\_C001 CS\_OFFL\_SIR\_SIN\_2\_20180131T151433\_20180131T151438\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T151756\_20180131T151949\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20180131T164652\_20180131T164825\_C001

Height Error (Retracker 2), Height Error 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 (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) records No DEM or Slope Model was used for the location of one or more records Surface Model Unavailable Height Error (Retracker 2), Height Error 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 (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), Height Error There is a height and backscatter 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mode and no DEM or Slope Model Unavailable 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 SARIn X-track Angle Error records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more SARIn X-track Angle Error 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 SARIn X-track Angle Error records SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable Model was used for one or more records An ambiguous angle 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CS_OFFL_SIR_SIN_220180131T165330_20180131T165337_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T165704_20180131T165836_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T182708_20180131T182824_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T183403_20180131T183502_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T183604_20180131T183719_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T200622_20180131T200747_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T201257_20180131T201603_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T214702_20180131T214952_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T215159_20180131T215723_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T224253_20180131T224717_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T232634_20180131T232910_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T233108_20180131T233227_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220180131T233610_20180131T233750_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	167	167	167	0	0
SIR_LRM_2	166	166	166	0	0
SIR_LRMI2_	166	166	166	0	0
SIR_SAR_1B	119	119	119	0	0
SIR_SAR_2	119	119	119	0	0
SIR_SARI2_	119	119	119	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	15	15	15	0	0

# 6.1 QCC Errors

Number of products with QCC errors:

0

67

6.2 QCC Warnings		
Number of QCC reports with warnings	0	

# 6.2 Missing QCC Reports

Number of products with missing QCC reports: