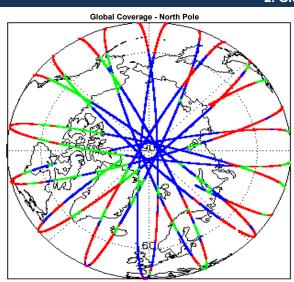
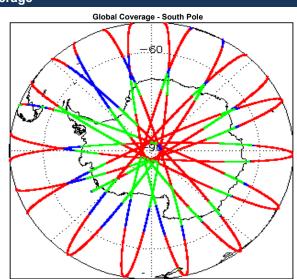


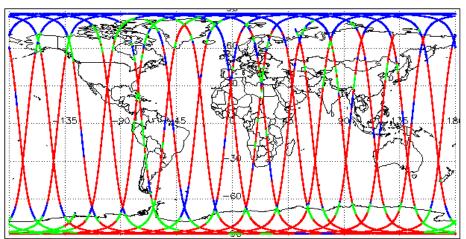
## IDEAS+ Daily Report for OFFLINE data:

<u>04/01/2017</u>

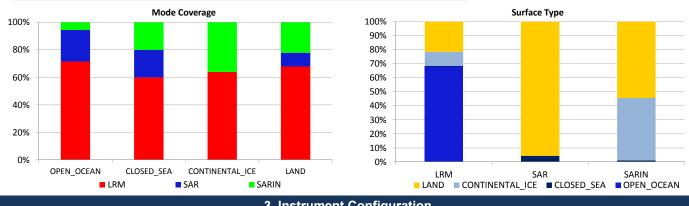
		1. Overview		
	00 E   00/7	Check	Status	
Report Production Date:	02-Feb-2017	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:		Product Software Check	Nominal	
Dete He e de	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		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				
03-Jan-2017 None				
04-Jan-2017 None				
05-Jan-2017 Nothing planned				
		2. Global Coverage		







LRM	17.5
SAR	12.7
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).

#### 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 ord Number of products with errors: 1	er to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Product	Test Failed
CS_OFFL_SIR_SAR_1B_20170104T055942_20170104T055944_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 F	st Failed I	Description
CS_OFFL_SIR_LRM_1B_20170104T223255_20170104T224351_C001 Echo e		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_220170104T055942_20170104T055944_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.

110

Product CS OFFL SIR LRM 2 20170104T001139 20170104T004005 C001 CS OFFL SIR LRM 2 20170104T010350 20170104T013635 C001 CS OFFL SIR LRM 2 20170104T022741 20170104T022917 C001 CS OFFL SIR LRM 2 20170104T024243 20170104T031636 C001 CS OFFL SIR LRM 2 20170104T032923 20170104T035720 C001 CS OFFL SIR LRM 2 20170104T035754 20170104T035933 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T042039\_20170104T045431\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T045921\_20170104T050209\_C001 CS OFFL SIR LRM 2 20170104T051015 20170104T053727 C001 CS OFFL SIR LRM 2 20170104T053743 20170104T054450 C001 CS OFFL SIR LRM 2 20170104T060132 20170104T061148 C001 CS OFFL SIR LRM 2 20170104T061629 20170104T061803 C001 CS OFFL SIR LRM 2 20170104T061806 20170104T063406 C001 CS OFFL SIR LRM 2 20170104T065202 20170104T070446 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T070700\_20170104T071930\_C001 CS OFFL SIR LRM 2 20170104T072124 20170104T072332 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T074622\_20170104T075552\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T075827\_20170104T081259\_C001 CS OFFL SIR LRM 2 20170104T083253 20170104T083531 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T083910\_20170104T084030\_C001 CS OFFL SIR LRM 2 20170104T084613 20170104T085037 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T085201\_20170104T085909\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T093154\_20170104T093300\_C001 CS OFFL SIR LRM 2 20170104T093512 20170104T095215 C001 CS OFFL SIR LRM 2 20170104T100551 20170104T104033 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T110613\_20170104T113147\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T113855\_20170104T114220\_C001 CS OFFL SIR LRM 2 20170104T114517 20170104T115650 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T120226\_20170104T121744\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T124333\_20170104T131126\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T131317\_20170104T132126\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T132513\_20170104T135900\_C001 CS OFFL SIR LRM 2 20170104T141206 20170104T141310 C001 CS OFFL SIR LRM 2 20170104T141322 20170104T141405 C001 CS OFFL SIR LRM 2 20170104T142354 20170104T142518 C001 CS OFFL SIR LRM 2 20170104T144238 20170104T145055 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T150354\_20170104T152627\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T152913\_20170104T153846\_C001 CS OFFL SIR LRM 2 20170104T155045 20170104T155120 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T155152\_20170104T155448\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T160204\_20170104T160709\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T160717\_20170104T161520\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T161707\_20170104T162844\_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) Surface Model Unavailable 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), 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable 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) Surface Model Unavailable 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), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), 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 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 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 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 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 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 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 ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 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 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 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

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\_20170104T163357\_20170104T163715\_C001 CS OFFL SIR LRM 2 20170104T164339 20170104T164908 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T164918\_20170104T171504\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T173337\_20170104T174037\_C001 CS OFFL SIR LRM 2 20170104T174100 20170104T180453 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T181427\_20170104T181621\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T182252\_20170104T183941\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T184000\_20170104T184045\_C001 CS\_OFFL\_SIR\_LRM\_2\_20170104T184337\_20170104T185217\_C001 CS OFFL SIR LRM 2 20170104T191349 20170104T192927 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T193546\_20170104T194725\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T195311\_20170104T195536\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T200214\_20170104T201712\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T201852\_20170104T203359\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T205545\_20170104T210255\_C001 CS OFFL SIR LRM 2 20170104T210417 20170104T210904 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T211133\_20170104T212814\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T213056\_20170104T213940\_C001 CS OFFL SIR LRM 2 20170104T214154 20170104T220543 C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T224354\_20170104T230708\_C001 CS\_OFFL\_SIR\_LRM\_2\_\_20170104T231303\_20170104T231733\_C001 CS OFFL SIR LRM 2 20170104T232020 20170104T234745 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170103T235930\_20170104T000110\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T000222\_20170104T000357\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T000828\_20170104T001112\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T013932\_20170104T014306\_C001 CS OFFL SIR SIN 2 20170104T014842 20170104T014957 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T031851\_20170104T032210\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T032723\_20170104T032847\_C001 CS OFFL SIR SIN 2 20170104T040939 20170104T041053 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T045603\_20170104T045921\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T050625\_20170104T050733\_C001 CS OFFL SIR SIN 2 20170104T054525 20170104T054633 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T054855\_20170104T055006\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T063409\_20170104T063549\_C001 CS OFFL SIR SIN 2 20170104T064328 20170104T064518 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T072646\_20170104T072920\_C001 CS OFFL SIR SIN 2 20170104T081328 20170104T081514 C001 CS OFFL SIR SIN 2 20170104T082158 20170104T082850 C001 CS OFFL SIR SIN 2 20170104T095231 20170104T095515 C001 CS OFFL SIR SIN 2 20170104T100139 20170104T100445 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T113212\_20170104T113327\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T114220\_20170104T114338\_C001 CS OFFL SIR SIN 2 20170104T123228 20170104T123322 C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T131154\_20170104T131317\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T132127\_20170104T132240\_C001 CS\_OFFL\_SIR\_SIN\_2\_20170104T145131\_20170104T145256\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T145815\_20170104T150122\_C001 CS\_OFFL\_SIR\_SIN\_2\_\_20170104T154950\_20170104T155015\_C001

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) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or more Height Error (Retracker 2), Backscatter 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), 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 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CS_OFFL_SIR_SIN_220170104T163114_20170104T163356_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T163715_20170104T164050_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T181153_20170104T181427_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T181621_20170104T181901_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T182101_20170104T182245_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T190703_20170104T190823_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T191236_20170104T191349_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T194725_20170104T195311_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_220170104T195537_20170104T195604_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T200029_20170104T200207_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T204132_20170104T204227_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_220170104T204634_20170104T204844_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T212916_20170104T213056_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T213940_20170104T214148_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T222546_20170104T223033_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_220170104T230851_20170104T231016_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220170104T231202_20170104T231303_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	172	172	172	0	0
SIR_LRM_2	170	170	170	0	0
SIR_LRMI2_	170	170	170	0	0
SIR_SAR_1B	122	122	122	0	0
SIR_SAR_2	122	122	122	0	0
SIR_SARI2_	122	122	122	0	0
SIR_SIN_1B	105	105	105	0	0
SIR_SIN_2	105	105	105	0	0
SIR_SINI2	105	105	105	0	0
SIR_GDR_2	14	14	14	0	0

## 6.1 QCC Errors

Number of products with QCC errors:

0

0

49

### 6.2 QCC Warnings

Number of QCC reports with warnings

## 6.2 Missing QCC Reports

Number of products with missing QCC reports: