



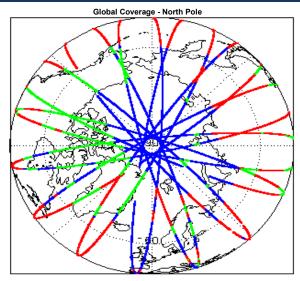
1. Overview

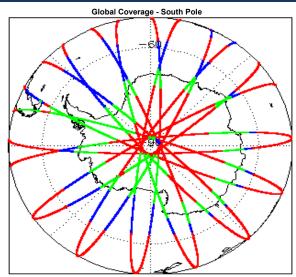
Report Production Date:	18-Jan-2017		
Processor Used:	CryoSat Ice Processor		
Data Used:	L1B and L2 OFFLINE Data		

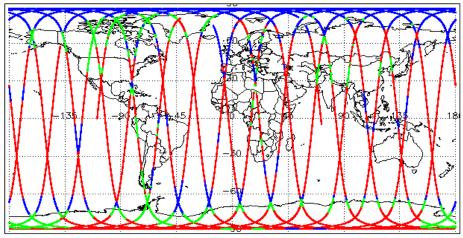
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File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

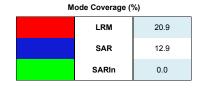
Missi	on / Instru	ment News
17-0	Dec-2016	None
18-E	Dec-2016	None
19-E	Dec-2016	Nothing planned

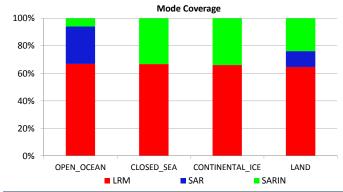
2. Global Coverage

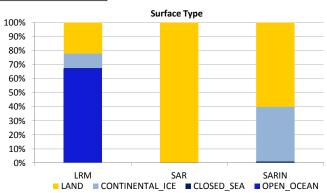












3. Instrument Configuration

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 order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

4.3 Star Tracker Usage Check

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

Number of products with errors:

4.4 L1B Calibration Usage Check

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

Number of products with errors: 0

4.5 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.6 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20161218T153053_20161218T153159_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.

Number of products with errors:

Product	Test Failed	Description
CS OFFE SIR FRM 2 201612171234333 201612181000815 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 OFFI SIR TRM 2 201612181004020 201612181005130 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_220161218T005708_20161218T010704_C001	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), Height Error	records There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_2_20161218T012247_20161218T015055_C001 CS_OFFL_SIR_LRM_2_20161218T015821_20161218T020025_C001	(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
	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_2_20161218T021338_20161218T024632_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220161218T033056_20161218T033114_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_220161218T033721_20161218T034055_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_220161218T035300_20161218T040141_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_220161218T040425_20161218T042621_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_220161218T044236_20161218T050730_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_220161218T053125_20161218T060453_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_220161218T062337_20161218T065511_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_220161218T071400_20161218T072219_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_20161218T072700_20161218T072814_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_20161218T072816_20161218T074427_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_20161218T080145_20161218T081514_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_220161218T081728_20161218T083101_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_220161218T085658_20161218T090720_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_220161218T090859_20161218T092307_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_220161218T094437_20161218T095200_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_220161218T095618_20161218T100107_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20161218T100350_20161218T100938_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_220161218T103817_20161218T110221_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_220161218T111641_20161218T1114459_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_20161218T120611_20161218T120646_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_220161218T121653_20161218T124138_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_20161218T124923_20161218T125249_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220161218T125648_20161218T130717_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20161218T131255_20161218T132916_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_220161218T135339_20161218T141157_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20161218T142359_20161218T143153_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220161218T143627_20161218T150902_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20161218T153450_20161218T153546_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_220161218T154434_20161218T155847_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_20161218T161511_20161218T163655_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_20161218T171031_20161218T171222_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20161218T171234_20161218T172551_C001	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
CS_OFFL_SIR_LRM_220161218T172738_20161218T173806_C001	(Retracker 2) 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_20161218T175441_20161218T182753_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_220161218T184327_20161218T191524_C001	(Retracker 2) 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_220161218T192456_20161218T192651_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220161218T193351_20161218T194916_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_20161218T195119_20161218T200153_C001	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
CS_OFFL_SIR_LRM_2_20161218T202340_20161218T203959_C001	(Retracker 2) 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_220161218T210328_20161218T210611_C001	(Retracker 2) Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
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Page Page Page 2014	CS_OFFL_SIR_LRM_220161218T225228_20161218T231724_C001	(Retracker 3), Backscatter Error	
Sept. Sept. 2016 2 2016 12016 1104 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 2016 12016 1144 201	CS_OFFL_SIR_LRM_220161218T235021_20161219T001650_C001	Height Error (Retracker 2), Backscatter	
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SARIE X ASSES A PAGE Prior CS. DPFI_SIR_SIN_2_D01612101102001_201612101102001_CO. CS. DPFI_SIR_SIN_2_D01612101102001_201612101102001_CO. CS. DPFI_SIR_SIN_2_D01612101102001_201612101102001_CO. CS. DPFI_SIR_SIN_2_D01612101102000_201612101102001_CO. CS. DPFI_SIR_SIN_2_D01612101102000_201612101102001_CO. CS. DPFI_SIR_SIN_2_D01612101102000_201612101102000_CO. CS. DPFI_SIR_SIN_2_D01612101102000_20161210110000_CO. CS. DPFI_SIR_SIN_2_D01612101102000_20161210110000_CO. CS. DPFI_SIR_SIN_2_D01612101102000_20161210110000_CO. CS. DPFI_SIR_SIN_2_D01612101102000_201612101110000_CO. CS. DPFI_SIR_SIN_2_D0161210110200_201612101111000_CO. CS. DPFI_SIR_SIN_2_D0161210110200_201611010000_CO. CS. DPFI_SIR_SIN_2_D0161210110200_20161101000_CO. CS. DPFI_SIR_SIN_2_D0161	CS_OFFL_SIR_SIN_220161218T025012_20161218T025336_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
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SARIN X-track Angle Error SARIN X-track Angl	CS_OFFL_SIR_SIN_220161218T083728_20161218T083944_C001		Model was used for one or more records
SARIN X-rack Angle Error SARIN X-rack Angle	CS_OFFL_SIR_SIN_220161218T092358_20161218T092545_C001	SARIn X-track Angle Error	records
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SARIN X-track Angle Error An ambiguous angle was delected for SARIN mode for one or more seconds SA	CS_OFFL_SIR_SIN_220161218T101311_20161218T101817_C001		Model was used for one or more records
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SARIN X-track Angle Error CS_OFF_SIR_SIN_2_201612181125249_2016121811252001 SARIN X-track Angle Error SARIN X-track Angle Error A mathiguous angle was detected for SARIn mode and no DEM or Slope Model Unavailable SARIN X-track Angle Error A mathiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error SARIN X-track Angle Error A mathiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error A mathiguous angle was detected for SARIn mode for one or more records SARIN X-track Angle Error SARIN X-track Angle	CS_OFFL_SIR_SIN_2_20161218T111309_20161218T111521_C001	SARIn X-track Angle Error	
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CS_OFFL_SIR_SIN_2_20161218T174744_20161218T175256_C001 SARIN X-track Angle Error 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 Unavailable SARIN X-track Angle Error SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode or one or more records An ambiguous angle was detected for SARIn mode or one or more records An ambiguous an	CS_OFFL_SIR_SIN_220161218T174207_20161218T174511_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
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CS_OFFL_SIR_SIN_2_20161218T205721_20161218T210328_C001 SARIN X-track Angle Error SARIN X-track Angle Error, Surface SARIN X-track Angle Error, Surface SARIN X-track Angle Error, Surface SARIN X-track Angle Error SARIN X-track Angle Error, Surface SARIN X-track Angle Error 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 SARIN X-track Angle Error, Surface An ambiguous angle was detected for SARIN mode and no DEM or Slope		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161218T210611_20161218T210626_C001 SARIN X-track Angle Error 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		-	An ambiguous angle was detected for SARIn mode for one or more
CS_OFFL_SIR_SIN_2_20161218T211055_20161218T211237_C001 SARIN X-track Angle Error SARIN X-track Angle Error, Surface 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 Unavailable SARIN X-track Angle Error, Surface SARIN X-track Angle Error 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		-	An ambiguous angle was detected for SARIn mode for one or more
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CS_OFFL_SIR_SIN_2_20161218T223940_20161218T224122_C001 SARIn X-track Angle Error SARIn X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope		-	
CS_OFFL_SIR_SIN_2_20161218T225002_20161218T225145_C001 CS_OFFL_SIR_SIN_2_20161218T225002_20161218T225145_C001 SARIN X-track Angle Error An ambiguous angle was detected for SARIn mode and no DEM or Slope		Model Unavailable	Model was used for one or more records
CS_OFFL_SIR_SIN_2_201612181225002_201612181225145_C001 SARIN X-track Angle Error SARIN X-track Angle Error, Surface SARIN X-track Angle Error, Surface An ambiguous angle was detected for SARIn mode and no DEM or Slope		-	records
		-	records
	CS_UFFL_SIR_SIN_220161218T233624_20161218T234109_C001		

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	157	157	157	0	0
SIR_LRM_2	157	157	157	0	0
SIR_LRMI2_	157	157	157	0	0
SIR_SAR_1B	105	105	105	0	0
SIR_SAR_2	105	105	105	0	0
SIR_SARI2_	105	105	105	0	0
SIR_SIN_1B	98	98	98	0	0
SIR_SIN_2	98	98	98	0	0
SIR_SINI2	98	98	98	0	0
SIR GDR 2	14	14	14	0	0

6.1 QCC Errors

Number of products with QCC errors: 0

6.2 QCC Warnings

Number of QCC reports with warnings

0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

103