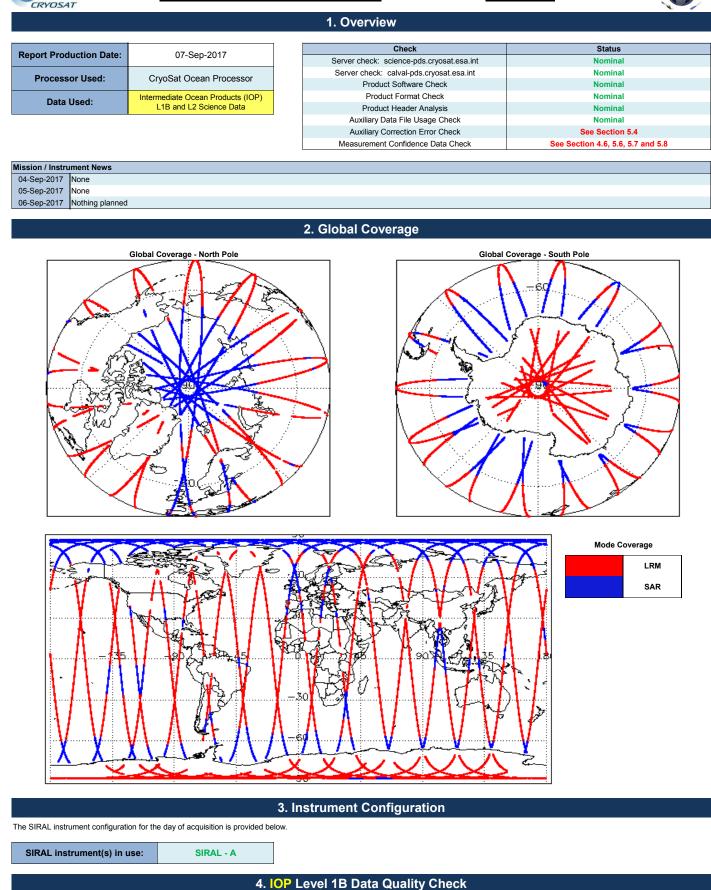


IDEAS+ Daily Report for IOP data:

05/09/2017





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 binary product file (.DBL). Number of products with errors: 0

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Each product is checked for missing Data Set Descriptors with respect to a p	re-determined baseline and also to check the	ne validity of Auxiliary Data Files is correct.					
Number of products with errors: 0							
4.4 L1B Auxiliary Correction Error Check							
CryoSat L1B data includes a correction error flag (field 60) for each measure	ment record. The bit value of this flag indica	tes any problems when set.					
lumber of products with errors: 0							
4.5 L1B Measurement Confidence Data Check							
CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.							
Number of products with errors: 0							
4.6 L1B Waveform Group Data Check							
CryoSat L1B data includes a waveform data flag (field 65) for each measuren	nent record. The bit value of this flag indica	tes any problems when set.					
.oss of Echo Flag: This flag is currently set for products over land, but this i	-						
Number of products with errors: 12							
Product	Test Failed	Description					
S_OFFL_SIR_IOP_1B_20170905T004751_20170905T005525_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T012444_20170905T013001_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T035309_20170905T040516_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T054711_20170905T055250_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T073715_20170905T075405_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T104627_20170905T105040_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T122450_20170905T123123_B001	Loss of Echo	The tracking echo is missing for one or more records					
CS_OFFL_SIR_IOP_1B_20170905T140146_20170905T140327_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T190306_20170905T190827_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T203423_20170905T203642_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T210238_20170905T211027_B001	Loss of Echo	The tracking echo is missing for one or more records					
S_OFFL_SIR_IOP_1B_20170905T213833_20170905T214109_B001	Loss of Echo	The tracking echo is missing for one or more records					
ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0	ensure it consists of both an XML header f	ile (.HDR) and a binary product file (.DBL).					
5212 Product Header Analysis							
•	nd SDH in order to identify any inconsistence	ice and/or errors raised by the ground commont processing chain					
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5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pr Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are ct Currently, there are two common auxiliary correction errors raised in th ololowed by a table highlighting any additional issues which may arise f Sea State Bias Error: The error value is currently set for products over land. Altimetric Wind Speed Error: The error value is currently set for products over land.	re-determined baseline and also to check the necked for the default error value (32767). e Level 2 products which are expected of rom this test. and sea ice, but this is to be expected. wer land and sea ice, but this is to be expect total Geocentric Ocean Tide (FES), Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES),	ted.					

Geoid Height

There is an error with the Geoid height for one or more records

CS_OFFL_SIR_IOP_2__20170905T073255_20170905T073442_B001

CS_OFFL_SIR_IOP_220170905T073715_20170905T075405_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170905T091636_20170905T091858_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170905T104145_20170905T104447_B001	For the second s	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170905T140146_20170905T140327_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOP_220170905T153501_20170905T154051_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170905T200819_20170905T201230_B001	Geoid height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_IOP_220170905T204158_20170905T204905_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170905T222605_20170905T222750_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 31

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170905T000331_20170905T000659_B001	Ice Range Averaging Status	The loe Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T013811_20170905T014358_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T014416_20170905T014600_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T031739_20170905T032251_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T045933_20170905T050153_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T063904_20170905T064101_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T064238_20170905T064604_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T073255_20170905T073442_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T081729_20170905T082024_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T082033_20170905T082505_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T095534_20170905T100405_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T113500_20170905T113625_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T113747_20170905T114205_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T131658_20170905T132245_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T145603_20170905T150116_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T163407_20170905T163603_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T163603_20170905T163609_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T163609_20170905T164024_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T172140_20170905T172237_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T180939_20170905T181501_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T181507_20170905T181514_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T181520_20170905T181732_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T194905_20170905T195400_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T195400_20170905T195405_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T195419_20170905T195430_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T195436_20170905T195554_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T212842_20170905T213329_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T213335_20170905T213343_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T213350_20170905T213510_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170905T230833_20170905T231227_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 25

Number of products with errors:

CS_OFFL_SIR_IOP_2_20170905T000331_20170905T000659_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T013811_20170905T014358_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T014416_20170905T014400_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T031739_20170905T032551_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T045933_20170905T050153_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T0645933_20170905T050153_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T0645933_20170905T064101_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T064238_20170905T064604_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T064238_20170905T064604_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20170905T064238_20170905T064604_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T014416_20170905T014600_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T014416_20170905T014600_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T031739_20170905T032251_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T045933_20170905T050153_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T063904_20170905T064101_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T0643948_20170905T064401 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T064394_20170905T064401_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T064238_20170905T064604_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T031739_20170905T032251_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170905T045933_20170905T050153_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T045933_20170905T050153_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T063904_20170905T064101_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T0643904_20170905T064101_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T064238_20170905T064604_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T063904_20170905T050153_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170905T063904_20170905T064101_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170905T0643904_20170905T064101_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20170905T064304_20170905T064604_B001 Ice Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T063904_20170905T064101_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_IOP_2_20170905T063904_20170905T064101_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status CS_OFFL_SIR_IOP_2_20170905T064238_20170905T064401_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status
CS_OFFL_SIR_IOP_2_201709051063904_201709051064604_8001 ICE Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or mo
CS_OFFL_SIR_IOP_2_20170905T073255_20170905T073442_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T081729_20170905T082024_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more cords.
CS_OFFL_SIR_IOP_2_20170905T082033_20170905T082505_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more cords.
CS_OFFL_SIR_IOP_2_20170905T095534_20170905T100405_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more conductive of the state of t
CS_OFFL_SIR_IOP_2_20170905T113500_20170905T113625_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T113747_20170905T114205_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T131658_20170905T132245_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T145603_20170905T150116_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T163407_20170905T163603_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T163609_20170905T164024_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T180939_20170905T181501_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T181507_20170905T181514_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T181520_20170905T181732_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more construction.
CS_OFFL_SIR_IOP_2_20170905T195400_20170905T195405_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T212842_20170905T213329_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T213350_20170905T213510_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more cords.
CS_OFFL_SIR_IOP_2_20170905T230833_20170905T231227_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170905T231248_20170905T231614_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more conductive of the state of t

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. 138

Number of products with errors:

6. IOP 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_IOP_1B	236	236	236	0	0	
SIR_IOP_2	232	232	232	0	0	
6.1 QCC Errors						
Number of QCC reports with err	rors: 0					
6.2 QCC Warnings						
Number of QCC reports with warnings 0						
6.3 Missing QCC Reports						
Number of products with missin	ng QCC reports: 0					