





	3. Instrument Config	juration				
The SIRAL instrument configuration for the day of acquisition is p	rovided below.					
SIRAL instrument(s) in use: SIRAL - A						
Star Tracker(s) in use: Star Tracker 1 & 2						
	4. Level 1B Data Quali	ity Check				
4.1 L1 Product Format Check						
Each product, retrieved and unpacked from the science server, is	checked to ensure it consists of both an XM	VIL header file (.HDR) and a 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 carried out on	the MPH and SPH in order to identify any ir	nconsistencies and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0						
4.3 L1B Auxilary Data File Usage Check						
Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.						
Number of products with errors: 0						
4.4 L1B Flagged Auxiliary Correction Error	Check					
Each product is checked to spot auxiliary corrections flagged by t	he ground-station processing chain as missi	ing or containing errors				
Number of products with errors: 2						
Product	Test Failed					
CS_OFFL_SIR_LRM_1B_20120914T055237_20120914T060307 CS_OFFL_SIR_LRM_1B_20120914T175612_20120914T180502		nere correction error				
4.5 L1B Measurement Confidence Data Che	ck					
CryoSat L1B data includes a measurement confidence flag word	(field 14) for each measurement record. The	e bit value of this flag indicates any problems when set.				
Number of products with errors: 2						
Product CS OFFL SIR LRM 1B 20120914T145605 20120914T150450	D B001 Attitude correction	Description The attitude has not been corrected				
CS_OFFL_SIR_SIN_1B_20120914T150450_20120914T150835	-	5				
	5. Level 2 Data Qualit	ty 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 binary product file (.DBL)						
Number of products with errors: 0						
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: 0						
5.3 L2 Auxiliary Data File Usage Check						
Each product is checked for missing Data Set Descriptors wrt a p	re-determined baseline and also to check the	ne validity of Auxiliary Data Files is correct				
Number of products with errors: 1						
Product CS_OFFL_SIR_GDR_2A_20120914T232416_20120915T010329		Comment OR_20120913T215525_20120915T Coverage missing for intervals [2012-09- 45700.02.05 2012 00 45704.02.00				
	002323_0001	15T00:23:25, 2012-09-15T01:03:29]				
5.4 L2 Flagged Auxiliary Correction Error Check						
Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors						
Number of products with errors: 2 Product	Test Failed					
CS_OFFL_SIR_LRM_220120914T055237_20120914T060307 CS_OFFL_SIR_LRM_220120914T175612_20120914T180502	_B001 Dynamic atmosph	nere correction error nere correction error				

## 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag word (field 43) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the ground-segment processing chains

Presently, there are several common data Quality Flag errors raised by the Level 2 products which are either expected due to changes made to the IPF processor in Baseline B or else are due to known issues with the data processors. The investigation of the known issues are on-going and are due to be resolved with the next update of the Level 2 processors. All common known issues are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Freeboard Error: This Quality Flag is correctly set in all products as this parameter is currently not provided in the L2 products and the Freeboard value is presently set to the default value of -9999.

SARin x-track angle error: Currently there is an on-going investigation into the high number of errors from the 'SARIn x-track Error' Quality Flag over Antarctica.

0

0

15

Height error and Backscatter error: It has been noted that the number of errors arising from the 'Backscatter Error' and 'Height Error' Quality Flag is much higher than expected over land areas and this is currently part of an on-going investigation by expert teams.

Number of products with errors:

6. QCC Check

The QCC is a CryoSat facility that 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.

Nb. There is currently a discrepancy between the number of QCC reports and the number of products reported. This is a known issue and investigation is on-going.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_GDR_2A	21	19	0	19	0
SIR_LRM_1B	123	123	91	32	0
SIR_LRM_2	129	128	0	128	0
SIR_SAR_1B	82	79	0	79	0
SIR_SAR_2A	83	83	3	80	0
SIR_SIN_1B	101	98	0	98	0
SIR_SIN_2	101	101	0	101	0

## 6.1 QCC Errors

Number of products with QCC errors:

## 6.2 Missing QCC Reports

## Number of products with missing QCC reports:

Product name
CS OFFL SIR GDR 2A 20120913T223553 20120914T001506 B002
CS_OFFL_SIR_LRM_1B_20120913T235845_20120914T001306_B001
CS_OFFL_SIR_LRM_1B_20120914T111955_20120914T112843_B001
CS OFFL SIR LRM 1B 20120914T120101 20120914T120734 B001
CS_OFFL_SIR_LRM_1B_20120914T125834_20120914T130616_B001
CS_OFFL_SIR_LRM_1B_20120914T131352_20120914T132731_B001
CS_OFFL_SIR_LRM_1B_20120914T145134_20120914T145257_B001
CS_OFFL_SIR_LRM_220120913T235845_20120914T001306_B001
CS_OFFL_SIR_SAR_1B_20120914T071356_20120914T071804_B001
CS_OFFL_SIR_SAR_1B_20120914T081232_20120914T081525_B001
CS_OFFL_SIR_SAR_1B_20120914T100540_20120914T100659_B001
CS_OFFL_SIR_SAR_1B_20120914T121837_20120914T122009_B001
CS_OFFL_SIR_SIN_1B_20120914T130616_20120914T130802_B001
CS_OFFL_SIR_SIN_1B_20120914T132732_20120914T132946_B001
CS_OFFL_SIR_SIN_1B_20120914T171901_20120914T172024_B001