



3. Instrument Configuration						
The SIRAL instrument configurati	on for the day of acquisition is prov	ided below.				
SIRAL instrument(s) in use:	SIRAL - A	7				
Star Tracker(s) in use:	Star Tracker 1					
		4. Level 1B Data Quality Check				
4.1 L1 Product Format	Check					
	cked from the science server, is ch	ecked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).				
4.2 L1B Product Heade	er Analysis					
For all products, a series of pre-de	efined checks are carried out on the	e 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 L1B Auxilary Data	File Usage Check					
Each product is checked for missi	ing 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						
4.4 L1B Flagged Auxili	ary Correction Error Ch	eck				
		ground-station processing chain as missing or containing errors				
Number of products with errors						
	008T055720_20121008T060308_B 008T115215_20121008T120949_B					
	Confidence Data Check					
CryoSat L1B data includes a mea Number of products with errors		Id 14) for each measurement record. The bit value of this flag indicates any problems when set.				
		5. Level 2 Data Quality Check				
5.1 L2 Product Format	Check					
Each product, retrieved and unpa Number of products with errors		ecked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL)				
5.2 L2 Product Header	Analysis					
For all products, a series of pre-d- Number of products with errors 5.3 L2 Auxiliary Data F	s: 0	e MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain				
		determined baseline and also to check the validity of Auxiliary Data Files is correct				
Number of products with errors						
Product		AUX File Comment				
CS_OFFL_SIR_GDR_2A_201210	007T234545_20121008T012459_E	CS_OPER_AUX_ORBDOR_20121006T215525_20121008T Coveragemissing for intervals [2012-10- 002325_0001 001 002325_0001 08T00:23:25, 2012-10-08T01:24:59]				
CS_OFFL_SIR_GDR_2A_201210	008T225455_20121009T003408_E	CS_OPER_AUX_ORBDOR_20121007T215525_20121009T Coverage missing for intervals [2012-10- 092325_0001 001 002325_0001 09T00:23:25, 2012-10-09T00:34:08]				
5.4 L2 Flagged Auxilia	ry Correction Error Che	ck				
Each product is checked to spot a	auxiliary corrections flagged by the	ground-station processing chain as missing or containing errors				
Number of products with errors	s: 3					
Product		Test Failed				
	008T055720_20121008T060308_B 008T115215_20121008T120949_B					
CS_OFFL_SIR_LRM_2201210	008T175553_20121008T181343_B	001 Dynamic atmosphere 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

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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	17	15	0	15	0
SIR_LRM_1B	123	128	92	36	0
SIR_LRM_2	128	127	0	127	0
SIR_SAR_1B	93	97	0	97	0
SIR_SAR_2A	96	96	1	95	0
SIR_SIN_1B	96	99	0	99	0
SIR_SIN_2	97	97	0	97	0

6.1 QCC Errors			
Number of products with QCC errors:	0		

6.2 Missing QCC Reports

Number of products with missing QCC reports:

 Product name

 CS_OFFL_SIR_GDR_2A_20121007T234545_20121008T012459_B001

 CS_OFFL_SIR_LRM_1B_20121007T232851_20121008T000528_B001

 CS_OFFL_SIR_LRM_1B_20121008T005744_20121008T010040_B001

 CS_OFFL_SIR_LRM_2_20121007T232851_20121008T000528_B001