

	3.	Instrument Configuration				
The SIRAL instrument configuration	for the day of acquisition is provided belo	ow.				
SIRAL instrument(s) in use:	SIRAL - A					
Star Tracker(s) in use:	Star Tracker 1					
	4. L	evel 1B Data Quality Check				
4.1 L1 Product Format C	heck					
Each product, retrieved and unpacket Number of products with errors:	ed from the science server, is checked to 0	ensure it consists of both an XML header file (.HDR) and	d a product file (.DBL).			
4.2 L1B Product Header	Analysis					
For all products, a series of pre-defi	ned checks are carried out on the MPH a	nd SPH in order to identify any inconsistencies and/or er	rors raised by the around-segment processing chain			
Number of products with errors:	0					
4.3 L1B Auxilary Data Fi	le Usage Check					
Each product is checked for missing	Data Set Descriptors wrt a pre-determin	ed baseline and also to check the validity of Auxiliary Dat	ta Files is correct.			
Number of products with errors:	0					
4.4 L1B Flagged Auxilia	ry Correction Error Check					
Each product is checked to spot aux	iliary corrections flagged by the ground-s	station processing chain as missing or containing errors				
Number of products with errors:	3					
Product		Test Failed				
CS_OFFL_SIR_LRM_1B_20121028 CS_OFFL_SIR_LRM_1B_20121028 CS_OFFL_SIR_SAR_1B_20121028	3T114808_20121028T120145_B001	Dynamic atmosphere correction error Dynamic atmosphere correction error Dynamic atmosphere correction error				
4.5 L1B Measurement Co	onfidence Data Check					
Number of products with errors: Product	2		escription			
CS_OFFL_SIR_LRM_1B_20121028 CS_OFFL_SIR_LRM_1B_20121028			e tracking echo has returned an error			
		Level 2 Data Quality Check				
		Level 2 Data Quality Check				
5.1 L2 Product Format C						
Each product, retrieved and unpacked Number of products with errors:	ed from the science server, is checked to 0	ensure it consists of both an XML header file (.HDR) and	d a binary product file (.DBL)			
5.2 L2 Product Header A	nalvsis					
For all products, a series of pre-defin Number of products with errors:	ned checks are carried out on the MPH a	nd SPH in order to identify any inconsistencies and/or en	rors raised by the ground-segment processing chain			
5.3 L2 Auxiliary Data File						
		ed baseline and also to check the validity of Auxiliary Dat	ta Files is correct			
Number of products with errors:	1	AUX File	Comment			
Product CS_OFFL_SIR_GDR_2A_20121023	7T232116 20121028T010030 B001	CS_OPER_AUX_ORBDOR_20121026T215525_2	20121028T Coverage missing for intervals [2012-10-			
		002325_0001	28T00:23:25, 2012-10-28T01:00:30]			
5.4 L2 Flagged Auxiliary	Correction Error Check					
Each product is checked to spot aux	iliary corrections flagged by the ground-s	station processing chain as missing or containing errors				
Number of products with errors:	3					
Product CS_OFEL_SIR_LRM_220121028	roduct  Test Failed    S_OFFL_SIR_LRM_2_20121028T055726_20121028T060349_B001  Dynamic atmosphere correction error					
CS_OFFL_SIR_LRM_2_20121028	OFFL_SIR_LRM_2_20121028T114808_20121028T120145_B001  Dynamic atmosphere correction error   OFFL_SIR_SAR_2A_20121028T175223_20121028T180046_B001  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

3

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	16	14	0	14	0
SIR_LRM_1B	148	147	134	13	0
SIR_LRM_2	148	147	2	145	0
SIR_SAR_1B	98	98	0	98	0
SIR_SAR_2A	98	98	3	95	0
SIR_SIN_1B	106	106	0	106	0
SIR_SIN_2	106	106	0	106	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\_20121027T232116\_20121028T010030\_B001 CS\_OFFL\_SIR\_LRM\_1B\_20121027T235140\_20121028T000957\_B001 CS\_OFFL\_SIR\_LRM\_2\_20121027T235140\_20121028T000957\_B001