

		3. Instrum	ent Configuratio	n					
The SIRAL instrument configurati	on for the day of acquisition is provi	ided below.							
SIRAL instrument(s) in use:	SIRAL - A								
Star Tracker(s) in use:	Star Tracker 1								
		4. Level 1B	Data Quality Ch	eck					
4.1 L1 Product Format	Check								
Each product, retrieved and unpa Number of products with errors	cked from the science server, is ches:	ecked to ensure it cons	sists 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-d	efined checks are carried out on the	MPH and SPH in ord	er to identify any inconsister	ncies and/or errors raised b	by the ground-segment processing chain.				
or 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.									
4.3 L1B Auxilary Data	File Usage Check								
	ing Data Set Descriptors wrt a pre-d	determined baseline ar	nd also to check the validity	of Auxiliary Data Files is co	orrect				
Number of products with errors	.								
4.4 L1B Flagged Auxili	iary Correction Error Ch	eck							
	auxiliary corrections flagged by the c		sing chain as missing or con	aining errors					
Number of products with errors									
Product			Test Failed						
	103T055813_20121103T060054_B 103T115738_20121103T120445_B		Dynamic atmosphere correct Dynamic atmosphere correct						
	103T175925_20121103T180235_B		Dynamic atmosphere correct						
4.5 L1B Measurement	Confidence Data Check								
	surement confidence flag word (fiel	ld 14) for each measur	ement record. The bit value	of this flag indicates any p	problems when set.				
Number of products with errors	s: 2								
Product	103T104919 20121103T110744 B(Test Failed	Description					
	103T140535_20121103T141648_B		TRK echo error TRK echo error	-	echo has returned an error echo has returned an error				
		5. Level 2 [Data Quality Che	ck					
5.1 L2 Product Format	Check								
Each product, retrieved and unpa	cked from the science server, is che	ecked to ensure it cons	sists of both an XML header	file (.HDR) and a binary p	roduct file (.DBL)				
Number of products with errors	s: 0								
5.2 L2 Product Header	Analysis								
For all products, a series of pre-d	efined checks are carried out on the	MPH and SPH in ord	er to identify any inconsister	ncies and/or errors raised t	by the ground-segment processing chain				
Number of products with errors									
5.3 L2 Auxiliary Data F	ile Usage Check								
Each product is checked for miss	ing Data Set Descriptors wrt a pre-d	determined baseline ar	nd also to check the validity of	of Auxiliary Data Files is co	orrect				
Number of products with errors	s: 1								
Product		AUX Fi	le		Comment				
CS_OFFL_SIR_GDR_2A_20121	102T231355_20121103T005309_B	001 CS_OF 002325			Coverage missing for intervals [2012-11- 03T00:23:25, 2012-11-03T00:53:09]				
5.4 L2 Flagged Auxilia	ry Correction Error Cheo	ck							
Each product is checked to spot a	auxiliary corrections flagged by the g	ground-station process	ing chain as missing or cont	aining errors					

Number of products with errors:

3

Product	Test Failed
CS_OFFL_SIR_LRM_220121103T055813_20121103T060054_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220121103T115738_20121103T120445_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220121103T175925_20121103T180235_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

0

4

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	14	0	14	0
SIR_LRM_1B	144	143	135	8	0
SIR_LRM_2	142	141	0	141	0
SIR_SAR_1B	91	91	0	91	0
SIR_SAR_2A	91	91	3	88	0
SIR_SIN_1B	97	99	0	99	0
SIR_SIN_2	97	97	0	97	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_20121102T231355_20121103T005309_B001 CS_OFFL_SIR_LRM_1B_20121102T234346_20121103T000238_B001

CS_OFFL_SIR_LRM_2__20121102T234346_20121103T000238_B001