





	3.	Instrument Configuration	n				
The SIRAL instrument configuration for the	day of acquisition is provided belo	W.					
SIRAL instrument(s) in use:	SIRAL - A						
Star Tracker(s) in use:	itar Tracker 2						
	4. L	evel 1B Data Quality Che	ck				
4.1 L1 Product Format Check							
Each product, retrieved and unpacked from	the science server, is checked to	ensure it consists of both an XML header fi	ile (.HDR) and a product file (.DBL).				
Number of products with errors:	0						
4.2 L1B Product Header Analy	/sis						
For all products, a series of pre-defined che	cks are carried out on the MPH a	nd SPH in order to identify any inconsistence	ies and/or errors raised by the ground-segment processing chain.				
Number of products with errors:	0						
4.3 L1B Auxilary Data File Usa							
			f Aurillian Data Film in comet				
Each product is checked for missing Data S		ed baseline and also to check the validity of	Auxiliary Data Files is correct.				
Number of products with errors:	0						
4.4 L1B Flagged Auxiliary Cor	rection Error Check						
Each product is checked to spot auxiliary co	rrections flagged by the ground-s	tation processing chain as missing or conta	ining errors				
Number of products with errors:	3						
Product	0.001007117060200 0001	Test Failed	ian array				
CS_OFFL_SIR_LRM_1B_20120711T05561 CS_OFFL_SIR_LRM_1B_20120711T17465		Dynamic atmosphere correct Dynamic atmosphere correct					
CS_OFFL_SIR_SIN_1B_20120711T115914		Dynamic atmosphere correct					
4.5 L1B Measurement Confide	ence Data Check						
CryoSat L1B data includes a measurement	confidence flag word (field 14) for	each measurement record. The bit value o	f this flag indicates any problems when set.				
Number of products with errors:	1						
Product		Test Failed	Description				
CS_OFFL_SIR_LRM_1B_20120711T22430	08_20120711T224953_B001	TRK echo error	The tracking echo has returned an error				
	5. L	_evel 2 Data Quality Chec	:k				
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 fi	ile (.HDR) and a binary product file (.DBL)				
Number of products with errors:	0						
5.2 L2 Product Header Analys	is						
,,,,,,,,	-						
For all products, a series of pre-defined che	cks are carried out on the MPH a	nd SPH in order to identify any inconsistend	ties and/or errors raised by the ground-segment processing chain				
Number of products with errors:	0						
5.3 L2 Auxiliary Data File Usa	ge Check						
Each product is checked for missing Data S	et Descriptors wrt a pre-determine	ed baseline and also to check the validity of	f Auxiliary Data Files is correct				
Number of products with errors:	1						
Product		AUX File	Comment				
CS_OFFL_SIR_GDR_2A_20120711T23540	00_20120712T013313_B001	CS_OPER_AUX_ORBDOR_201207 002325_0001	10T215525_20120712T Coverage missing for intervals [2012-07- 12T00:23:25, 2012-07-12T01:33:13]				
5.4 L2 Flagged Auxiliary Corro	ection Error Check						
Each product is checked to spot auxiliary co		tation processing chain as missing or conta	ining errors				
Number of products with errors:	3						
Product		Test Failed					
CS_OFFL_SIR_LRM_220120711T05561		Dynamic atmosphere correction error					
	S_OFFL_SIR_LRM_2_20120711T174659_20120711T180155_B001 Dynamic atmosphere correction error S_OFFL_SIR_SIN_2_20120711T115914_20120711T120026_B001 Dynamic atmosphere correction error						
00_011L_011_0111_220120/111115914	_20120/111120020_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.

1

0

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:

Product	Test Failed	Description	
CS_OFFL_SIR_SAR_2A_20120711T010325_20120711T011220_B001	Peakiness error	There is an error in the peakiness derivation	

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	18	16	0	16	0
SIR_LRM_1B	118	117	104	13	0
SIR_LRM_2	117	116	0	116	0
SIR_SAR_1B	92	92	0	92	0
SIR_SAR_2A	92	92	4	88	0
SIR_SIN_1B	102	103	0	103	0
SIR_SIN_2	102	102	0	102	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: 0