







	3.	Instrument Configuration	
The SIRAL instrument configuration	for the day of acquisition is provided belo	DW.	
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	Check		
		ensure it consists of both an XML 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-defi	ned checks are carried out on the MPH a	nd SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
4.3 L1B Auxilary Data Fi	le Lisage Check		
-		ed baseline and also to check the validity of Au	xiliary Data 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	kiliary corrections flagged by the ground-s	station processing chain as missing or containir	g errors
Number of products with errors:	3		
Product		Test Failed	
CS_OFFL_SIR_LRM_1B_20120924 CS_OFFL_SIR_LRM_1B_20120924 CS_OFFL_SIR_SIN_1B_20120924	4T175652_20120924T180730_B001	Dynamic atmosphere correction Dynamic atmosphere correction Dynamic atmosphere correction	error
4.5 L1B Measurement C	onfidence Data Check		
CryoSat L1B data includes a measu	rement confidence flag word (field 14) for	r each measurement record. The bit value of th	is flag indicates any problems when set.
Number of products with errors:	2		
Product		Test Failed	Description
CS_OFFL_SIR_LRM_1B_20120924 CS_OFFL_SIR_SIN_1B_20120924	4T190456_20120924T191043_B001 T202137_20120924T202144_B001	TRK echo error Cal1. correction missing	The tracking echo has returned an error The Cal1 correction has not been applied
	5.1	Level 2 Data Quality Check	
5.1 L2 Product Format C			
		ensure it consists of both an XML header file (HDP) and a binany product file (DPL)
Number of products with errors:		ensure it consists of both an XML header life (HDR) and a binary product life (.DBL)
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5.2 L2 Product Header A	Inalysis		
For all products, a series of pre-defin	ned checks are carried out on the MPH a	nd 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	e Usage Check		
Each product is checked for missing	Data Set Descriptors wrt a pre-determin	ed baseline and also to check the validity of Au	xiliary Data Files is correct
Number of products with errors:	1		
Product		AUX File	Comment
CS_OFFL_SIR_GDR_2A_2012092	4T231202_20120925T005116_B001	CS_OPER_AUX_ORBDOR_20120923 002325_0001	215525_20120925T Coverage missing for intervals [2012-09- 25T00:23:25, 2012-09-25T00:51:15]
5.4 L2 Flagged Auxiliary	Correction Error Check		
		station processing chain as missing or containir	g errors
Number of products with errors:	3		
Product		Test Failed	
CS_OFFL_SIR_LRM_220120924 CS_OFFL_SIR_LRM_220120924		Dynamic atmosphere correction Dynamic atmosphere correction	

CS_OFFL_SIR_LRM_2_201209241175652_201209241180730_B001 Dynamic atmosphere correction error CS_OFFL_SIR_SIN_2_20120924T115929_20120924T120025_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.

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_SIN_220120924T202137_20120924T202144_B001	Calibration warning	The Cal correction is missing or has been taken from the IPFDB as opposed to the Calibration products					
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.

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	Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
	SIR_GDR_2A	18	17	0	17	0
	SIR_LRM_1B	124	123	84	39	0
	SIR_LRM_2	124	123	0	123	0
	SIR_SAR_1B	80	80	0	80	0
	SIR_SAR_2A	80	80	3	77	0
	SIR_SIN_1B	103	103	0	103	0
L	SIR_SIN_2	103	103	0	103	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_20120923T222339_20120924T000252_B001 CS_OFFL_SIR_LRM_1B_20120923T234628_20120924T001039_B001

0

3

CS_OFFL_SIR_LRM_2__20120923T234628_20120924T001039_B001