

	з.	instrum	ient Configuration			
The SIRAL instrument configuration	for the day of acquisition is provided belo	SW.				
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					
	ed from the science server, is checked to	ensure it con	nsists of both an XML header file (.HD	OR) and a product	file (.DBL).	
Number of products with errors:	0					
4.2 L1B Product Header	Analysis					
For all products, a series of pre-defin	ned checks are carried out on the MPH a	nd SPH in ord	der to identify any inconsistencies and	d/or errors raised	by the ground-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 a	nd also to check the validity of Auxilia	arv Data Files is c	orrect.	
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 proces	sing chain as missing or containing e	errors		
Number of products with errors:	3					
Product CS_OFFL_SIR_LRM_1B_20130111T055723_20130111T060146_B001			Test Failed Dynamic atmosphere correction error			
CS_OFFL_SIR_LRM_1B_20130111	TT115121_20130111T120334_B001 TT175345_20130111T180044_B001		Dynamic atmosphere correction error Dynamic atmosphere correction error			
				5.		
4.5 L1B Measurement Co	onfidence Data Check					
CryoSat L1B data includes a measu	rement confidence flag word (field 14) for	r each measu	rement record. The bit value of this fl	ag indicates any p	problems when set.	
Number of products with errors:	2					
Product			Test Failed	Description		
	1T064114_20130111T065339_B001 1T065339_20130111T065518_B001		Attitude corr. miss. Attitude corr. miss.		has not been corrected	
			1	The autode f		
	5. 1	Level 2 I	Data Quality Check			
5.1 L2 Product Format C	Check					
Each product, retrieved and unpacked	ed from the science server, is checked to	ensure it con	nsists of both an XML header file (.HD	0R) and a binary p	product file (.DBL)	
Number of products with errors:	0					
5.2 L2 Product Header A	nalysis					
For all products, a sories of pre-defi	nod checks are carried out on the MPH a	nd SPH in or	der to identify any inconsistencies and	d/or orrors raised	by the ground-segment processing chain	
Number of products with errors:			der to identify any inconsistencies and		by the ground-segment processing chain	
5 2 L 2 Auviliany Data Eil	a Uaaga Chaok					
5.3 L2 Auxiliary Data File		od hoopling o	nd also to aboat the velicity of Avvilia	an (Data Files is a		
-	Data Set Descriptors wrt a pre-determin	eu baseiine a	Ind also to check the validity of Auxilia	ary Data Files is c	onect	
Number of products with errors:	1				Comment	
Product	1T232717_20130112T010631_B001		PER_AUX_ORBDOR_20130110T21	5525_20130112T		
		00232	5_0001		12T00:23:25, 2013-01-12T01:06:31]	
5.4 L2 Flagged Auxiliary	Correction Error Check					
Each product is checked to spot aux	viliary corrections flagged by the ground-s	station proces	sing chain as missing or containing e	errors		
Number of products with errors:	4					
Product			Test Failed			
CS_OFFL_SIR_LRM_220130111T055723_20130111T060146_B001		Dynamic atmosphere correction error				
S_OFFL_SIR_LRM_2_20130111T115121_20130111T120334_B001 Dynamic atmosphere correction error S_OFFL_SIR_SAR_2A_20130110T235956_20130111T000021_B001 Dynamic atmosphere correction error						
CS_OFFL_SIR_SAR_2A_20130111T175345_20130111T180044_B001			Dynamic atmosphere correction error			

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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

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	17	0	17	0
SIR_LRM_1B	151	151	105	46	0
SIR_LRM_2	147	147	0	147	0
SIR_SAR_1B	153	152	0	152	0
SIR_SAR_2A	109	108	4	104	0
SIR_SIN_1B	102	102	0	102	0
SIR_SIN_2	98	98	0	98	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_20130110T223853_20130111T001807_B001 CS_OFFL_SIR_SAR_1B_20130110T235956_20130111T000022_B001 CS_OFFL_SIR_SAR_2A_20130110T235956_20130111T000021_B001