

		3. Instr	ument Configuratio	1		
e SIRAL instrument configuratio	n for the day of acquisition is provi	ded below.				
RAL instrument(s) in use:	SIRAL - A					
Star Tracker(s) in use:	Star Tracker 1 & 2					
· ·		4 Level	1B Data Quality Che	ock		
1 L1 Product Format	Check					
		ecked to ensure i	it consists of both an XML beader t	ile (.HDR) and a product file (.DBL).		
Imber of products with errors:						
2 L1B Product Heade	r Analysis					
		MPH and SPH	in order to identify any inconsisten	cies and/or errors raised by the ground-segment proces	sing chain.	
umber of products with errors:						
3 L1B Auxilary Data F	ile Usage Check					
ch product is checked for missin	g Data Set Descriptors wrt a pre-c	letermined basel	line and also to check the validity o	f Auxiliary Data Files is correct.		
umber of products with errors:	0					
4 L1B Flagged Auxilia	ary Correction Error Ch	eck				
ach product is checked to spot au	uxiliary corrections flagged by the g	ground-station pr	rocessing chain as missing or conta	aining errors		
umber of products with errors:	4					
roduct			Test Failed			
	19T232914_20130320T000320_B 20T115000_20130320T121253_B		Dynamic atmosphere correct Dynamic atmosphere correct			
S_OFFL_SIR_LRM_1B_2013032			-)	Dynamic atmosphere correction error		
3 OFFL SIR SAR 1B 2013032						
.5 L1B Measurement C	20T055523_20130320T060034_Bi	001	Dynamic atmosphere correc			
.5 L1B Measurement C	20T055523_20130320T060034_Bi	001 d 14) for each m	Dynamic atmosphere correc	ion error		
.5 L1B Measurement C ryoSat L1B data includes a meas umber of products with errors: roduct	20T055523_20130320T060034_Bi	001 d 14) for each m 001	Dynamic atmosphere correct neasurement record. The bit value of Test Failed TRK echo error	ion error of this flag indicates any problems when set. Description The tracking echo has returned an error		
.5 L1B Measurement C ryoSat L1B data includes a meas umber of products with errors: roduct	20T055523_20130320T060034_Bi	001 d 14) for each m 001	Dynamic atmosphere correct neasurement record. The bit value of Test Failed	ion error of this flag indicates any problems when set. Description The tracking echo has returned an error	_	
.5 L1B Measurement C ryoSat L1B data includes a meas umber of products with errors: roduct S_OFFL_SIR_LRM_1B_2013032	20T055523_20130320T060034_Bi Confidence Data Check urement confidence flag word (fiel 1 20T053240_20130320T053704_Bi	001 d 14) for each m 001	Dynamic atmosphere correct neasurement record. The bit value of Test Failed TRK echo error	ion error of this flag indicates any problems when set. Description The tracking echo has returned an 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.

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:

Peakiness error	There is an error in the peakiness derivation	
	Peakiness error	

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	19	17	0	17	0
SIR_LRM_1B	152	147	147	0	0
SIR_LRM_2	151	150	2	148	0
SIR_SAR_1B	157	157	0	157	0
SIR_SAR_2A	110	110	3	107	0
SIR_SIN_1B	109	109	0	109	0
SIR_SIN_2	105	105	0	105	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 20130319T225457 20130320T003410 B001 CS_OFFL_SIR_LRM_1B_20130319T232914_20130320T000320_B001 CS_OFFL_SIR_LRM_1B_20130320T030449_20130320T032037_B001 CS_OFFL_SIR_LRM_1B_20130320T032218_20130320T033011_B001 CS_OFFL_SIR_LRM_1B_20130320T042406_20130320T042604_B001 CS_OFFL_SIR_LRM_1B_20130320T042607_20130320T042604_B001 CS_OFFL_SIR_LRM_1B_20130320T042607_20130320T043110_B001 CS_OFFL_SIR_LRM_2_20130319T232914_20130320T000320_B001

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