

The SIRAL instrument configuration	on for the day of acquisition is provi	ded below.				
SIRAL instrument(s) in use:	SIRAL - A					
Star Tracker(s) in use:	Star Tracker 1					
		4. Level 1B Data	Quality Check			
4.1 L1 Product Format	Check					
Each product, retrieved and unpa	cked from the science server, is che	ecked to ensure it consists of t	ooth an XML header file (.HDR)	and a product f	île (.DBL).	
Number of products with errors	.: 0					
4.2 L1B Product Heade	er Analysis					
For all products, a series of pre-de	efined checks are carried out on the	MPH and SPH in order to ide	ntify any inconsistencies and/or	r errors raised b	y the ground-segment processir	ig chain.
Number of products with errors						
4.3 L1B Auxilary Data I	File Usage Check					
4.5 LTB Auxiliary Data I	File Usage Check					
Each product is checked for missi	ng Data Set Descriptors wrt a pre-c	etermined baseline and also t	o check the validity of Auxiliary	Data Files is co	prrect.	
Number of products with errors	.: 0					
4.4 L1B Flagged Auxili	ary Correction Error Ch	eck				
Each product is checked to spot a	uxiliary corrections flagged by the g	round-station processing cha	n as missing or containing erro	rs		
Number of products with errors	:: 4					
Product		Test Fa	iled			
	12T055020_20130112T062118_B 12T114258_20130112T120201_B		c atmosphere correction error catmosphere correction error			
CS_OFFL_SIR_SAR_1B_201301	12T175949_20130112T180523_B 11T235452_20130112T000626_B0	001 Dynami	c atmosphere correction error c atmosphere correction error			
C3_0FFL_3IR_3IN_1B_2013011	111235452_201301121000626_60					
4.5.1.1B Mossuramont	Confidence Data Check					
4.5 LIB Measurement						
				·		
CryoSat L1B data includes a mea	surement confidence flag word (fiel	d 14) for each measurement r	ecord. The bit value of this flag	indicates any pr	roblems when set.	
CryoSat L1B data includes a mea	surement confidence flag word (fiel		-		roblems when set.	
CryoSat L1B data includes a mea Number of products with errors Product	surement confidence flag word (fiel	Test Fa	-	Description	roblems when set. as not been corrected	
CryoSat L1B data includes a mea Number of products with errors Product CS_OFFL_SIR_LRM_1B_201301 CS_OFFL_SIR_LRM_1B_201301	surement confidence flag word (fiel : 4 12T024122_20130112T024453_Bi 12T190017_20130112T191600_Bi	Test Fa 001 Attitude 001 Attitude	iled corr. miss. corr. miss.	Description The attitude ha	as not been corrected as not been corrected	_
CryoSat L1B data includes a mea Number of products with errors Product CS_OFFL_SIR_LRM_1B_201301 CS_OFFL_SIR_LRM_1B_201301 CS_OFFL_SIR_SAR_1B_201301	surement confidence flag word (fiel : 4 12T024122_20130112T024453_B	Test Fa 001 Attitude 001 Attitude 001 Attitude	iled corr. miss.	Description The attitude ha The attitude ha The attitude ha	as not been corrected	
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CryoSat L1B data includes a mea Number of products with errors Product CS_OFFL_SIR_LRM_1B_201301 CS_OFFL_SIR_LRM_1B_201301 CS_OFFL_SIR_SAR_1B_2013011 CS_OFFL_SIR_SIN_1B_2013011	surement confidence flag word (fiel : 4 12T024122_20130112T024453_B 12T190017_20130112T191600_B 12T191600_20130112T191802_B 12T024453_20130112T024558_B0	Test Fa       001     Attitude       001     Attitude       001     Attitude       001     Attitude	iled corr. miss. corr. miss. corr. miss. corr. miss.	Description The attitude ha The attitude ha The attitude ha	as not been corrected as not been corrected as not been corrected	_
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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:

Product	Test Failed	Description
CS_OFFL_SIR_SAR_2A_20130112T162945_20130112T163958_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	16	14	0	14	0
SIR_LRM_1B	157	157	116	41	0
SIR_LRM_2	155	155	2	153	0
SIR_SAR_1B	156	156	0	156	0
SIR_SAR_2A	108	108	2	106	0
SIR_SIN_1B	107	106	0	106	0
SIR_SIN_2	104	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\_20130111T232717\_20130112T010631\_B001 CS\_OFFL\_SIR\_SIN\_1B\_20130111T235452\_20130112T000626\_B001 CS\_OFFL\_SIR\_SIN\_2\_20130111T235452\_20130112T000626\_B001

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