







		o. instru	ment Configuration							
The SIRAL instrument configurat	ion for the day of acquisition is prov	ded below.								
SIRAL instrument(s) in use	SIRAL - A									
Star Tracker(s) in use:	Star Tracker 2									
		4. Level 1	B Data Quality Check	·						
4.1 L1B Software Vers	ion Check									
N.b. There were a number of version referenced in the pro Number of products with errors	duct header.	nstallation of the	new IPF1 Vk2.0, IPF2 Vk1.0. TI	he affected L1B p	roducts, listed below, have the old software					
4.2 L1B Product Form	at Check									
Each product, retrieved and unpa		ecked to ensure it c	consists of both an XML header file (.	HDR) and a product	file (.DBL).					
4.3 L1B Product Header Analysis										
For all products, a series of pre-d		MPH and SPH in	order to identify any inconsistencies	and/or errors raised	by the ground-segment processing chain.					
4.4 L1B Auxilary Data										
Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.           Number of products with errors:         0										
	iary Correction Error Ch	ock								
Number of products with errors		ground-station proc	essing chain as missing or containing	g errors						
	s. J		Test Failed							
Product CS_OFFL_SIR_LRM_1B_20130	505T055558_20130505T060800_B	001	Dynamic atmosphere correction e	error						
	505T114849_20130505T121554_B 505T175913_20130505T180736_B			Dynamic atmosphere correction error Dynamic atmosphere correction error						
4.6 L1B Measurement	Confidence Data Check									
CryoSat L1B data includes a mea Number of products with errors		d 14) for each mea	surement record. The bit value of this	s flag indicates any p	problems when set.					
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Product CS_OFEL_SIR_LBM_1B_20130	505T011403 20130505T011547 B	001	Test Failed Attitude correction missing	Description The attitude h	as not been corrected					
	505T210331_20130505T210700_B		Attitude correction missing		as not been corrected					
	 505T011547_20130505T011729_B		Attitude correction missing							
CS_OFFL_SIR_SIN_1B_201305	05T210701_20130505T210802_B0	01	Attitude correction missing	The attitude h	as not been corrected					
		5. Level 2	2 Data Quality Check							
5.2 L2 Product Header	Analysis									
For all products, a series of pre-d Number of products with errors		MPH and SPH in	order to identify any inconsistencies a	and/or errors raised	by the ground-segment processing chain					
5.3 L2 Auxiliary Data F	ile Usage Check									
Each product is checked for miss	ing Data Set Descriptors wrt a pre-o	letermined baseline	e and also to check the validity of Aux	kiliary Data Files is c	orrect					
Number of products with errors	s: 1									
Product		20	<pre>{ File _OPER_AUX_ORBDOR_20130504T;</pre>	215525 20130506T	Comment Coverage missing for intervals [2013-05-					
CS_OFFL_SIR_GDR_2A_20130	505T224709_20130506T002622_B		325_0001	210020_201000001	06T00:23:25, 2013-05-06T00:26:22]					
5.4 L2 Flagged Auxilia	ry Correction Error Che	ck								
Each product is checked to spot a	auxiliary corrections flagged by the	ground-station proc	essing chain as missing or containing	g errors						
Number of products with errors	s: 4									
Product CS_OFEL_SIR_LRM_2_20130505T055558_20130505T060800_R001			Test Failed							
CS_OFFL_SIR_LRM_220130505T055558_20130505T060800_B001 CS_OFFL_SIR_LRM_220130505T114849_20130505T121554_B001			Dynamic atmosphere correction error Dynamic atmosphere correction error							
CS_OFFL_SIR_LRM_2201305051114049_201305051121534_B001 CS_OFFL_SIR_LRM_2201305051175913_201305051180736_B001			Dynamic atmosphere correction error							
	CS_OFFL_SIR_SIN_220130504T235948_20130505T000105_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_SAR_2A_20130505T082459_20130505T082557_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	15	0	15	0
SIR_LRM_1B	135	138	104	34	0
SIR_LRM_2	137	137	0	137	0
SIR_SAR_1B	155	156	0	156	0
SIR_SAR_2A	111	111	2	109	0
SIR_SIN_1B	105	103	0	103	0
SIR_SIN_2	101	100	0	100	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\_20130504T233759\_20130505T011712\_B001

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CS\_OFFL\_SIR\_LRM\_1B\_20130505T094013\_20130505T094906\_B001

CS\_OFFL\_SIR\_SIN\_1B\_20130504T235948\_20130505T000105\_B001

CS\_OFFL\_SIR\_SIN\_1B\_20130505T054319\_20130505T054540\_B001

CS\_OFFL\_SIR\_SIN\_2\_\_20130504T235948\_20130505T000105\_B001