

The SIRAL instrument configuration	on for the day of acquisition is provid	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 unpac	cked from the science server, is che	cked to ensure it cor	nsists of both an XML header file (.HDR) and a product file (.DBL).		
Number of products with errors	: 0					
4.2 L1B Product Heade	r Analysis					
For all products, a series of pre-de	fined checks are carried out on the	MPH and SPH in or	der to identify any inconsistencies and/o	or errors raised by the ground-segment processing chain.		
Number of products with errors	: 0					
4.3 L1B Auxilary Data F	File Usage Check					
		etermined baseline a	nd also to check the validity of Auxilian	/ Data Files is correct		
Number of products with errors						
	ary Correction Error Ch	eck				
••	•					
		round-station proces	sing chain as missing or containing erro	ors		
Number of products with errors	: 4		Test Failed			
	06T055743_20130106T062911_B0		Dynamic atmosphere correction error			
CS_OFFL_SIR_LRM_1B_201301	06T115045_20130106T120933_B0 06T175752_20130106T180157_B0	001	Dynamic atmosphere correction error Dynamic atmosphere correction error			
CS_OFFL_SIR_SAR_1B_201301	05T235703_20130106T000117_B0	001	Dynamic atmosphere correction error			
4.5 L1B Measurement (Confidence Data Check					
CryoSat L1B data includes a meas	surement confidence flag word (field	d 14) for each measu	rement record. The bit value of this flag	indicates any problems when set.		
Number of products with errors	: 4					
Product			Test Failed	Description		
	06T091746_20130106T092650_B0 06T190758_20130106T192323_B0		Attitude corr. miss. Attitude corr. miss., TRK echo error	The attitude has not been corrected The attitude has not been corrected		
CS_OFFL_SIR_SAR_1B_201301	06T192323_20130106T192526_B0	001	Attitude corr. miss.	The attitude has not been corrected		
CS_OFFL_SIR_SIN_1B_2013010	06T092650_20130106T093027_B0)1	Attitude corr. miss.	The attitude has not been corrected		
		5. Level 2	Data Quality Check			
5.1 L2 Product Format	Check					
		cked to ensure it cor	nsists of both an XML header file (.HDR) and a binary product file (.DBL)		
Number of products with errors	: 0					
5.2 L2 Product Header	Analysis					
For all products, a sories of product	fined checks are carried out on the	MPH and SPH in or	der to identify any inconsistencies and/	or errors raised by the ground-segment processing chain		
Number of products with errors			ter to recently any inconsistencies and	or errors raised by the ground-segment processing chain		
5212 Auxilian/ Data Fi	ila Llagga Chaok					
5.3 L2 Auxiliary Data Fi		stermined becaling a	ad also to shool the velidity of Auvilian	· Dete Files is correct		
		etermined baseline a	nd also to check the validity of Auxiliary	Data Files is correct		
Number of products with errors Product	: 1	AUX F		Comment		
	05T233439_20130106T011353_B	001 CS_0	PER_AUX_ORBDOR_20130104T2155	25_20130106T0 Coverage missing for intervals [2013-01-		
		02325	_0001	06T00:23:25, 2013-01-06T01:13:53]		
5.4 L2 Flagged Auxiliar	y Correction Error Cheo	:k				
Each product is checked to spot a	uxiliary corrections flagged by the g	round-station proces	sing chain as missing or containing erro	ors		
Number of products with errors	: 4					
Product		04	Test Failed			
CS_OFFL_SIR_LRM_2_20130106T055743_20130106T062911_B001 Dynamic atmosphere correction err CS_OFFL_SIR_LRM_2_20130106T115045_20130106T120933_B001 Dynamic atmosphere correction err						
	CS_OFFL_SIR_LRM_2_20130106T175752_20130106T180157_B001 Dynamic atmosphere correction error					
CS_OFFL_SIR_SAR_2A_20130105T235703_20130106T000116_B001 Dynamic atmosphere correction error						

3. Instrument Configuration

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.

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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	14	0	14	0
SIR_LRM_1B	163	163	122	41	0
SIR_LRM_2	161	161	0	161	0
SIR_SAR_1B	159	157	0	157	0
SIR_SAR_2A	111	110	4	106	0
SIR_SIN_1B	109	109	0	109	0
SIR_SIN_2	106	106	0	106	0

6.1 QCC Errors	
Number of products with QCC errors:	0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS_OFFL_SIR_GDR_2A_20130105T233439_20130106T011353_B001 CS_OFFL_SIR_SAR_1B_20130105T235703_20130106T000117_B001 CS_OFFL_SIR_SAR_2A_20130105T235703_20130106T000116_B001