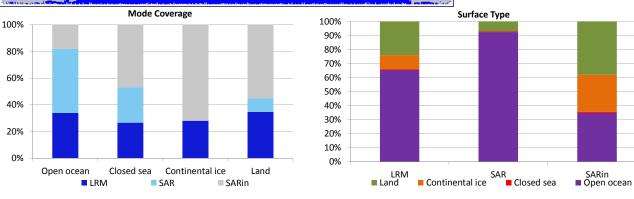


Mode Coverage(%)			
	LRM	64.70	
	SAR	20.48	
	SIN	14.65	



	3.	Instrument Configuration	
The SIRAL instrument configuration	for the day of acquisition is provided belo	ow.	
SIRAL instrument(s) in use	SIRAL - A		
Star Tracker(s) in use:	Star Tracker 2		
	4. L	evel 1B Data Quality Check.	
4.1 L1 Product Format C	heck		
		ensure it consists of both an XML header file (.	HDR) 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	ed checks are carried out on the MPH a	and SPH in order to identify any inconsistencies.	and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
•			
4.3 L1B Auxilary Data Fil	e Usage Check		
Each product is checked for missing	Data Set Descriptors wrt a pre-determin	ed baseline and also to check the validity of Au	kiliary Data Files is correct.
Number of products with errors:	0		
4.4 L1B Flagged Auxiliar	y Correction Error Check		
Each product is checked to spot auxi	liary corrections flagged by the ground-s	station processing chain as missing or containing	a errors
Number of products with errors:	4		
Product		Test Failed	
CS_OFFL_SIR_LRM_1B_20120829 CS_OFFL_SIR_LRM_1B_20120829		Dynamic atmosphere correction e Dynamic atmosphere correction e	
CS_OFFL_SIR_SAR_1B_20120828	T235845_20120829T000524_B001	Dynamic atmosphere correction e	error
CS_OFFL_SIR_SIN_1B_20120829T	055931_20120829T060357_B001	Dynamic atmosphere correction e	
4.5 L1B Measurement Co	onfidence Data Check		
Number of products with errors:	ement confidence flag word (field 14) fo	r each measurement record. The bit value of thi	s flag indicates any problems when set.
		To ad Called	Description
Product CS_OFFL_SIR_LRM_1B_20120829	T042856_20120829T044329_B001	Test Failed TRK echo error	Description           The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120829 CS_OFFL_SIR_LRM_1B_20120829		TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_SIN_1B_20120829T		Cal1. correction missing	The Cal1 correction has not been applied
	5. 1	Level 2 Data Quality Check	
5.1 L2 Product Format C	heck		
		o ensure it consists of both an XML header file (.	HDR) and a binary product file (.DBL)
Number of products with errors:	0		
E 2 L 2 Droduct Hooder A	nalvaia		
5.2 L2 Product Header A	narysis		
For all products, a series of pre-defin	ed checks are carried out on the MPH a	and SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain
Number of products with errors:	0		
5.3 L2 Auxiliary Data File	Usage Check		
		ed baseline and also to check the validity of Au	xiliary Data Files is correct
Number of products with errors:	2		
Product		AUX File	Comment
CS_OFFL_SIR_GDR_2A_20120828	T225526_20120829T003440_B001		215525_20120829T Coverage missing for intervals [2012-08- 29T00:23:25, 2012-08-29T00:34:40]
CS_OFFL_SIR_GDR_2A_20120829	T234350_20120830T012303_B001		215525_20120830T Coverage missing for intervals [2012-08- 30T00:23:25, 2012-08-30T01:23:03]
5.4 L2 Flagged Auxiliary	Correction Error Check		
		station processing chain as missing or containing	g errors
Number of products with errors:	4	-	
Product	T115350 20120820T121025 D004	Test Failed	
CS_OFFL_SIR_LRM_2_20120829	T115350_20120829T121935_B001	Dynamic atmosphere correction e	siloi

 CS\_OFFL\_SIR\_LRM\_2\_20120829T174813\_20120829T1480719\_B001
 Dynamic atmosphere correction error

 CS\_OFFL\_SIR\_SAR\_2A\_20120828T235845\_20120829T000524\_B001
 Dynamic atmosphere correction error

 CS\_OFFL\_SIR\_SIN\_2\_20120829T055931\_20120829T060357\_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_SIN_220120829T224928_20120829T224936_B001	Calibration warning	The Cal correction is missing or has been taken from the IPFDB as opposed to the Calibration products

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	17	16	0	16	0
SIR_LRM_1B	121	121	107	14	0
SIR_LRM_2	117	121	0	121	0
SIR_SAR_1B	89	87	0	87	0
SIR_SAR_2A	89	88	4	84	0
SIR_SIN_1B	109	103	0	103	0
SIR_SIN_2	107	109	0	109	0

# 6.1 QCC Errors

Number of products with QCC errors:

### 6.2 Missing QCC Reports

### Number of products with missing QCC reports: 10

Product name
CS_OFFL_SIR_GDR_2A_20120828T225526_20120829T003440_B001
CS_OFFL_SIR_SAR_1B_20120828T235845_20120829T000524_B001
CS_OFFL_SIR_SAR_1B_20120829T023331_20120829T024015_B001
CS_OFFL_SIR_SAR_2A_20120828T235845_20120829T000524_B001
CS_OFFL_SIR_SIN_1B_20120829T014928_20120829T015044_B001
CS_OFFL_SIR_SIN_1B_20120829T024248_20120829T024456_B001
CS_OFFL_SIR_SIN_1B_20120829T030236_20120829T030450_B001
CS_OFFL_SIR_SIN_1B_20120829T031957_20120829T032116_B001
CS_OFFL_SIR_SIN_1B_20120829T032207_20120829T032533_B001
CS_OFFL_SIR_SIN_1B_20120829T033331_20120829T033518_B001

0