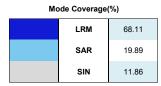
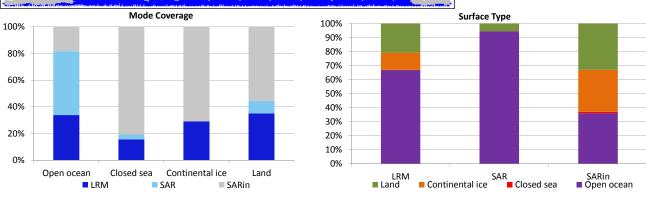


Global Coverage





		3. Instrun	nent Configuration					
The SIRAL instrument configuration	on 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 1B	Data Quality Cheo	ck				
4.1 L1 Product Format	Check			-				
	cked from the science server, is ch	ecked to ensure it co	nsists of both an XML beader file	e (HDR) and a product	file ( DBI )			
Number of products with errors								
4.2 L1B Product Heade	er Analysis							
		e MPH and SPH in or	der to identify any inconsistencie	es and/or errors raised	by the ground-segment processing chain.			
Number of products with errors	: 0							
4.3 L1B Auxilary Data F	File Usage Check							
Each product is checked for missi	ng Data Set Descriptors wrt a pre-o	letermined baseline a	and also to check the validity of <i>i</i>	Auxiliary Data Files is c	orrect.			
Number of products with errors	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	around-station proces	seina chain as missing or contair	aing errors				
Number of products with errors		ground-station proces						
Product	. '		Test Failed					
	03T055719_20120903T060005_B	001	Dynamic atmosphere correction	on error				
4.5 L1B Measurement	Confidence Data Check							
CryoSat L1B data includes a measure Number of products with errors	surement confidence flag word (fiel	d 14) for each measu	urement record. The bit value of	this flag indicates any p	problems when set.			
Product	. 2		Test Failed	Description				
CS_OFFL_SIR_SAR_1B_201209	03T094627_20120903T094631_B 03T094623 20120903T094627 B0		Attitude correction missing Attitude correction missing	The attitude h	has not been corrected			
C3_0FFL_3IK_3IN_1B_2012090	31094023_201209031094027_B0		-	ļ	has not been corrected			
		5. Level 2	Data Quality Chec	K				
5.1 L2 Product Format	Check							
Each product, retrieved and unpact Number of products with errors	cked from the science server, is choose 0	ecked to ensure it co	nsists of both an XML header file	e (.HDR) and a binary p	product file (.DBL)			
5.2 L2 Product Header	Analysis							
For all products, a series of pre-de	efined checks are carried out on the	MPH and SPH in or	der to identify any inconsistencie	es and/or errors raised	by the ground-segment processing chain			
Number of products with errors	: 0							
5.3 L2 Auxiliary Data F	ile Usage Check							
Each product is checked for missi	ng Data Set Descriptors wrt a pre-o	letermined baseline a	and also to check the validity of <i>i</i>	Auxiliary Data Files is c	orrect			
Number of products with errors	: 2							
Product		AUX	File		Comment			
CS_OFFL_SIR_GDR_2A_201209	002T233857_20120903T011810_B		PER_AUX_ORBDOR_2012090 25_0001	1T215525_20120903T	Coverage missing for intervals [2012-09- 03T00:23:25, 2012-09-03T01:18:10]			
CS_OFFL_SIR_GDR_2A_201209	003T224807_20120904T002720_B		PER_AUX_ORBDOR_2012090 25_0001	2T215525_20120904T	Coverage missing for intervals [2012-09- 04T00:23:25, 2012-09-04T00:27:20]			
5.4 L2 Flagged Auxiliar	y Correction Error Che	ck						
	uxiliary corrections flagged by the		ssing chain as missing or contair	ning errors				
Number of products with errors	: 3							

Product Test Failed

Troduct			
CS_OFFL_SIR_LRM_220120903T115514_20120903T121923_B001	Dynamic atmosphere correction error		
CS_OFFL_SIR_LRM_220120903T174936_20120903T180028_B001	Dynamic atmosphere correction error		
CS_OFFL_SIR_SAR_2A_20120903T055719_20120903T060005_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.

0

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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	40	40	0	40	0
SIR_LRM_1B	97	114	82	32	0
SIR_LRM_2	103	115	0	115	0
SIR_SAR_1B	78	76	0	76	0
SIR_SAR_2A	73	79	4	75	0
SIR_SIN_1B	88	99	0	99	0
SIR_SIN_2	88	99	0	99	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 20120902T233857 20120903T011810 B001
CS OFFL SIR LRM 1B 20120903T014548 20120903T014955 B001
CS OFFL SIR LRM 1B 20120903T034839 20120903T040417 B001
CS_OFFL_SIR_LRM_1B_20120903T085126_20120903T090122_B001
CS OFFL SIR LRM 1B 20120903T094718 20120903T094837 B001
CS OFFL SIR LRM 1B 20120903T182810 20120903T185007 B001
CS_OFFL_SIR_LRM_1B_20120903T221845_20120903T222354_B001
CS_OFFL_SIR_LRM_220120903T042035_20120903T044344_B001
CS_OFFL_SIR_LRM_220120903T092048_20120903T092209_B001
CS_OFFL_SIR_LRM_220120903T114450_20120903T115125_B001
CS_OFFL_SIR_LRM_220120903T214613_20120903T214645_B001
CS_OFFL_SIR_SAR_1B_20120902T235947_20120903T000553_B001
CS_OFFL_SIR_SAR_1B_20120903T072154_20120903T072550_B001
CS_OFFL_SIR_SAR_1B_20120903T082234_20120903T082509_B001 CS_OFFL_SIR_SAR_1B_20120903T084525_20120903T085126_B001
CS_OFFL_SIR_SAR_1B_20120903T094428_20120903T094623_B001
CS OFFL SIR SAR 1B 20120903T095541 20120903T100414 B001
CS OFFL SIR SAR 1B 20120903T203355 20120903T203808 B001
CS OFFL SIR SAR 2A 20120902T235947 20120903T000553 B001
CS_OFFL_SIR_SAR_2A_20120903T031720_20120903T031901_B001
CS_OFFL_SIR_SAR_2A_20120903T123232_20120903T123850_B001
CS_OFFL_SIR_SAR_2A_20120903T151650_20120903T152414_B001
CS_OFFL_SIR_SIN_1B_20120903T045248_20120903T045306_B001
CS_OFFL_SIR_SIN_1B_20120903T074311_20120903T074503_B001
CS_OFFL_SIR_SIN_1B_20120903T221727_20120903T221845_B001
CS_OFFL_SIR_SIN_2_20120903T000704_20120903T000814_B001
CS_OFFL_SIR_SIN_2_20120903T063756_20120903T063808_B001 CS_OFFL_SIR_SIN_2_20120903T165358_20120903T165404_B001
C9_OLLF_91K_9114_5501508031109399_501508031109404_8001