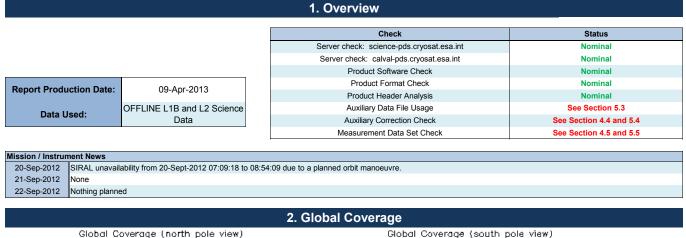
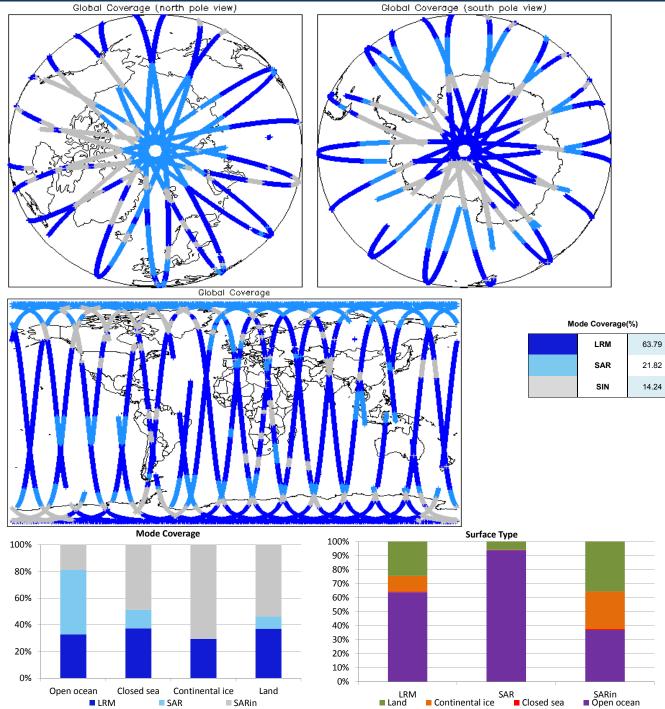


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	3. I	nstrument Configuration					
The SIRAL instrument configuration for	or the day of acquisition is provided below	Ι.					
SIRAL instrument(s) in use:	SIRAL - A						
Star Tracker(s) in use:	Star Tracker 1						
	4. Le	vel 1B Data Quality Check					
4.1 L1 Product Format Ch	neck						
Each product, retrieved and unpacked from the science server, is checked to 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 A	Analysis						
For all products, a series of pre-define	ed checks are carried out on the MPH and	SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.				
Number of products with errors:	0						
4.3 L1B Auxilary Data File	e Usage Check						
		baseline and also to check the validity of Auxi	iliary Data Files is correct.				
Number of products with errors:	0						
4.4 L1B Flagged Auxiliary	Correction Error Check						
Each product is checked to spot auxili	iary corrections flagged by the ground-sta	tion processing chain as missing or containing	errors				
Number of products with errors:	3						
Product		Test Failed					
CS_OFFL_SIR_LRM_1B_20120921T054259_20120921T060303_B001 CS_OFFL_SIR_LRM_1B_20120921T175720_20120921T180522_B001		Dynamic atmosphere correction en Dynamic atmosphere correction en	rror				
CS_OFFL_SIR_SIN_1B_20120921T1	115850_20120921T120022_B001	Dynamic atmosphere correction er	rror				
4.5 L1B Measurement Co	nfidence Data Check						
CryoSat I 1B data includes a measure	ament confidence flag word (field 14) for	each measurement record. The bit value of this	flag indicates any problems when set				
Number of products with errors:	4		hay indicates any problems when set.				
Product		Test Failed	Description				
CS_OFFL_SIR_LRM_1B_20120921T		Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_LRM_1B_20120921T CS_OFFL_SIR_LRM_1B_20120921T		TRK echo error TRK echo error	····· · · · · · · · · · · · · · · · ·				
CS_OFFL_SIR_SAR_1B_20120921T		Attitude correction missing	The attitude has not been corrected				
	5. L	evel 2 Data Quality Check					
5.1 L2 Product Format Ch	neck						
Each product, retrieved and unpacked	d from the science server, is checked to e	nsure it consists of both an XML header file (.F	IDR) and a binary product file (.DBL)				
Number of products with errors:	0						
5.2 L2 Product Header An	nalysis						
		d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain				
Number of products with errors:	0						
5.3 L2 Auxiliary Data File	Usage Check						
Each product is checked for missing I	Data Set Descriptors wrt a pre-determined	baseline and also to check the validity of Auxi	iliary Data Files is correct				
Number of products with errors:	1						
Product		AUX File	Comment 15525_20120921T Coverage missing for intervals [2012-09-				
CS_OFFL_SIR_GDR_2A_20120920T	F231655_20120921T005608_B001	002325_0001	21T00:23:25, 2012:09-21T00:56:08]				
5.4 L2 Flagged Auxiliary (	Correction Error Check						
		tion processing chain as missing or containing	errors				
Number of products with errors:	3						
Product		Test Failed					
CS_OFFL_SIR_LRM_220120921T		Dynamic atmosphere correction er					
CS_OFFL_SIR_LRM_220120921T CS_OFFL_SIR_SIN_2_20120921T1		Dynamic atmosphere correction er Dynamic atmosphere correction er	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

0

18

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	37	33	0	33	0
SIR_LRM_1B	131	127	91	36	0
SIR_LRM_2	117	129	0	129	0
SIR_SAR_1B	80	79	0	79	0
SIR_SAR_2A	73	80	2	78	0
SIR_SIN_1B	105	97	0	97	0
SIR_SIN_2	93	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_20120920T231655_20120921T005608_B001
CS_OFFL_SIR_LRM_1B_20120920T234752_20120921T002059_B001
CS_OFFL_SIR_LRM_1B_20120921T103620_20120921T111005_B001
CS_OFFL_SIR_LRM_1B_20120921T114322_20120921T115748_B001
CS_OFFL_SIR_LRM_1B_20120921T120022_20120921T120829_B001
CS_OFFL_SIR_LRM_220120920T234752_20120921T002059_B001
CS_OFFL_SIR_LRM_220120921T020107_20120921T020212_B001
CS_OFFL_SIR_SAR_1B_20120921T093258_20120921T093424_B001
CS_OFFL_SIR_SIN_1B_20120921T043647_20120921T043714_B001
CS_OFFL_SIR_SIN_1B_20120921T044132_20120921T044607_B001
CS_OFFL_SIR_SIN_1B_20120921T070356_20120921T070741_B001
CS_OFFL_SIR_SIN_1B_20120921T085158_20120921T085322_B001
CS_OFFL_SIR_SIN_1B_20120921T090106_20120921T090313_B001
CS_OFFL_SIR_SIN_1B_20120921T093424_20120921T093516_B001
CS_OFFL_SIR_SIN_1B_20120921T174137_20120921T174756_B001
CS_OFFL_SIR_SIN_1B_20120921T234055_20120921T234421_B001
CS_OFFL_SIR_SIN_220120921T003647_20120921T003821_B001
CS_OFFL_SIR_SIN_220120921T073020_20120921T073354_B001