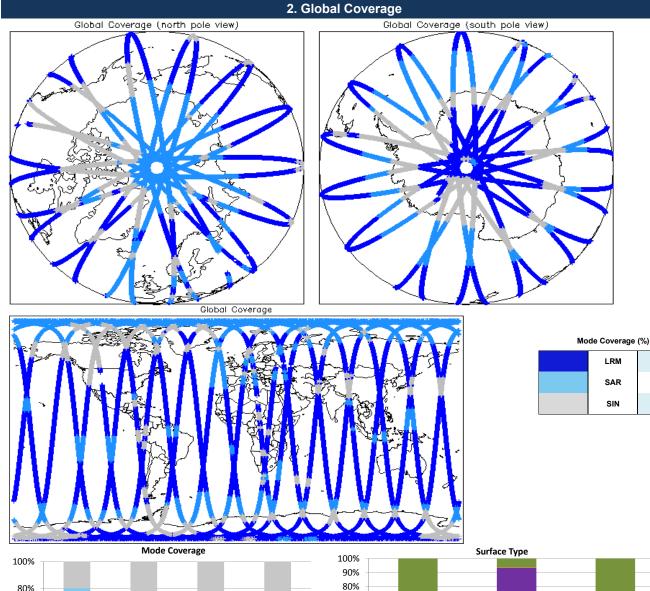
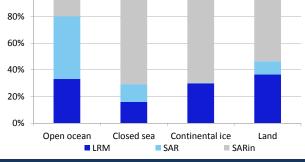
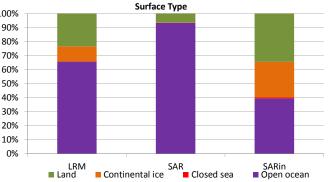


18-Oct-2013	None	
10-Oct-2013	Nothing planner	







65.22 20.73

13.86

3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A	
Star Tracker(s) in use:	Star Tracker 1	

4. Level 1E	B Data Quality Check			
4.1 L1B Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure it con	nsists 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-defined 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: 1				
Product	Test Failed			
CS_OFFL_SIR_SAR_1B_20131018T045017_20131018T045017_B001.DBL	Percentage of processing errors dete	cted greater than minimum acceptable threshold.		
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline a	and also to check the validity of Auxiliary I	Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Flagged Auxiliary Correction Error Check				
Each product is checked to spot auxiliary corrections flagged by the ground-station proces	ssing chain as missing or containing error	s		
Number of products with errors: 4				
Product	Test Failed			
CS_OFFL_SIR_LRM_1B_20131018T055324_20131018T060743_B001	Dynamic atmosphere correction error	·		
CS_OFFL_SIR_LRM_1B_20131018T114137_20131018T121353_B001	Dynamic atmosphere correction error			
CS_OFFL_SIR_LRM_1B_20131018T174543_20131018T180204_B001	Dynamic atmosphere correction error	Dynamic atmosphere correction error		
CS_OFFL_SIR_SAR_1B_20131017T235309_20131018T000126_B001	Dynamic atmosphere correction error			
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag word (field 14) for each measu	urement record. The bit value of this flag i	ndicates any problems when set.		
Number of products with errors: 3				
Product	Test Failed	Description		
CS_OFFL_SIR_LRM_1B_20131018T015012_20131018T015019_B001	TRK echo error	The tracking echo has returned an error		
CS_OFFL_SIR_LRM_1B_20131018T172941_20131018T174329_B001	TRK echo error	The tracking echo has returned an error		
CS_OFFL_SIR_SIN_1B_20131018T014926_20131018T015012_B001	TRK echo error	The tracking echo has returned an error		
5. Level 2	Data Quality Check			
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure it con	nsists of both an XML header file (.HDR)	and a product file (.DBL).		
Number of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined 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:

5.3 L2 Auxiliary Data File Usage Check

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:

5.4 L2 Flagged Auxiliary Correction Error Check

Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors

4

0

0

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220131018T055324_20131018T060743_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220131018T114137_20131018T121353_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220131018T174543_20131018T180204_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SAR_2A_20131017T235309_20131018T000126_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_20131018T000421_20131018T000614_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.

0

All

		Nb. Valid	Nb. Warnings	Nb. Errors
16	0	0	0	0
150	0	0	0	0
150	0	0	0	0
100	0	0	0	0
99	0	0	0	0
108	0	0	0	0
108	0	0	0	0
	150 150 100 99 108	150 0 150 0 100 0 99 0 108 0	150 0 0 150 0 0 100 0 0 99 0 0 108 0 0	150 0 0 0 150 0 0 0 100 0 0 0 99 0 0 0 108 0 0 0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: