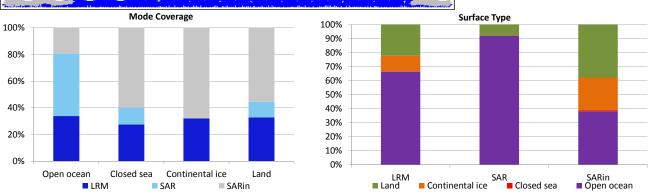




LRM	66.04
SAR	19.81
SIN	13.96



3. Instrument Configuration								
The SIRAL instrument configuration for the day of acquisition	s provided 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 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 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 erro	ors raised by the ground-segment processing chain.					
Number of products with errors: 0								
4.3 L1B Auxilary Data File Usage Check								
Each product is checked for missing Data Set Descriptors wrt	a pre-determined baseline a	nd also to check the validity of Auxiliary Data	a Files is correct.					
Number of products with errors: 0								
4.4 L1B Flagged Auxiliary Correction Erro	or Check							
Each product is checked to spot auxiliary corrections flagged to	by the ground-station proces	sing chain as missing or containing errors						
Number of products with errors: 3								
Product CS OFFL SIR LRM 1B 20121009T115355 20121009T120	720 0001	Test Failed						
CS_OFFL_SIR_LRM_1B_20121009T174554_20121009T180	246_B001	Dynamic atmosphere correction error Dynamic atmosphere correction error Dynamic atmosphere correction error						
CS_OFFL_SIR_SAR_1B_20121009T055916_20121009T060								
4.5 L1B Measurement Confidence Data Cl	Теск							
CryoSat L1B data includes a measurement confidence flag wo	ord (field 14) for each measu	rement record. The bit value of this flag indic	ates any problems when set.					
Number of products with errors: 5								
Product	247 8001		scription e tracking echo has returned an error					
CS_OFFL_SIR_LRM_1B_20121009T010603_20121009T012 CS_OFFL_SIR_LRM_1B_20121009T133710_20121009T134	-		e attitude has not been corrected					
CS_OFFL_SIR_LRM_1B_20121009T142521_20121009T142		÷	e attitude has not been corrected					
CS_OFFL_SIR_SIN_1B_20121009T134357_20121009T1348 CS_OFFL_SIR_SIN_1B_20121009T142518_20121009T1425		_	e attitude has not been corrected e attitude has not been corrected					
	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 cor	sists 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 series of pre-defined checks are carried out	on the MPH and SPH in or	der to identify any inconsistencies and/or erro	ors 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 Data Set Descriptors wrt	a pre-determined baseline a	nd also to check the validity of Auxiliary Data	a Files is correct					
Number of products with errors: 2								
Product	AUX F		Comment					
CS_OFFL_SIR_GDR_2A_20121008T225455_20121009T003		PER_AUX_ORBDOR_20121007T215525_20 5_0001	0121009T Coverage missing for intervals [2012-10- 09T00:23:25, 2012-10-09T00:34:08]					
CS_OFFL_SIR_GDR_2A_20121009T234318_20121010T012		_OPER_AUX_ORBDOR_20121008T215525_20121010T Coverage missing for intervals [2 2325_0001 10T00:23:25, 2012-10-10T01:22						
5.4 L2 Flagged Auxiliary Correction Error	Check							
Each product is checked to spot auxiliary corrections flagged to	by the ground-station proces	sing chain as missing or containing errors						
Number of products with errors: 3								
Product		Test Failed						

 Product
 Test Failed

 CS_OFFL_SIR_LRM_2_20121009T115355_20121009T120720_B001
 Dynamic atmosphere correction error

 CS_OFFL_SIR_LRM_2_20121009T174554_20121009T180246_B001
 Dynamic atmosphere correction error

 CS_OFFL_SIR_SAR_2A_20121009T055916_20121009T060200_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

5

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	25	23	0	23	0
SIR_LRM_1B	142	142	104	38	0
SIR_LRM_2	145	144	2	142	0
SIR_SAR_1B	96	98	0	98	0
SIR_SAR_2A	94	94	2	92	0
SIR_SIN_1B	102	104	0	104	0
SIR_SIN_2	104	104	0	104	0

6.1 QCC Errors 0

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_20121008T225455_20121009T003408_B001 CS_OFFL_SIR_GDR_2A_20121009T003408_20121009T021322_B001 CS_OFFL_SIR_GDR_2A_20121009T021322_20121009T035236_B001 CS_OFFL_SIR_LRM_1B_20121008T234551_20121009T000014_B001 CS_OFFL_SIR_LRM_2_20121008T234551_20121009T000014_B001