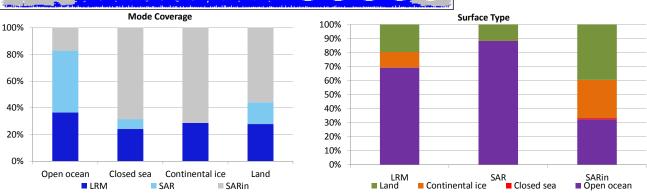




LRM	64.91
SAR	20.86
SIN	14.05



		Instrument Configuration	1
-	for the day of acquisition is provided belo	w.	
IRAL instrument(s) in use:	SIRAL - A		
Star Tracker(s) in use:	Star Tracker 1 & 2		
	4. L	evel 1B Data Quality Che	ck
4.1 L1 Product Format C	heck		
Each product, retrieved and unpack	ed from the science server, is checked to	ensure it consists of both an XML header f	ile (.HDR) and a product file (.DBL).
Number of products with errors:	0		
4.2 L1B Product Header	Analysis		
		nd SPH in order to identify any inconsistent	cies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
4.3 L1B Auxilary Data Fi	le Usage Check		
Each product is checked for missing	J Data Set Descriptors wrt a pre-determine	ed baseline and also to check the validity of	f Auxiliary Data Files is correct.
Number of products with errors:	0		
4 4   1B Flagged Auvilia	ry Correction Error Check		
T.T LID Flagged Auxilia			
Each product is checked to spot aux	diliary corrections flagged by the ground-st	ation processing chain as missing or conta	ining errors
Number of products with errors:	4		
Product		Test Failed	
	0T055009_20130220T060035_B001 0T115739_20130220T120046_B001	Dynamic atmosphere correct Dynamic atmosphere correct	
	0T175541_20130220T120040_B001	Dynamic atmosphere correct	
CryoSat L1B data includes a measu	rement confidence flag word (field 14) for 1	each measurement record. The bit value c	f this flag indicates any problems when set.
Product		Test Failed	Description
CS_OFFL_SIR_LRM_1B_20130220	0T165224_20130220T170624_B001	TRK echo error	The tracking echo has returned an error
	5. L	evel 2 Data Quality Cheo	ck
5.1 L2 Product Format C	heck		
Each product, retrieved and unpack	ed from the science server, is checked to	ensure it consists of both an XML header f	ile (.HDR) and a binary product file (.DBL)
Number of products with errors:	0		
5.2 L2 Product Header A	nalysis		
For all products, a series of pre-defin		nd SPH in order to identify any inconsistent	cies and/or errors raised by the ground-segment processing chain
	0		
Number of products with errors:			
	e Usage Check		
5.3 L2 Auxiliary Data File		ed baseline and also to check the validity of	f Auxiliary Data Files is correct
5.3 L2 Auxiliary Data File		ed baseline and also to check the validity of	f Auxiliary Data Files is correct
5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors:		AUX File	Comment
5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product		AUX File	·
5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_20130219	g Data Set Descriptors wrt a pre-determine 1 9T232911_20130220T010824_B001	AUX File CS_OPER_AUX_ORBDOR_201302	Comment 18T215525_20130220T Coverage missing for intervals [2013-02-
5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_20130219 5.4 L2 Flagged Auxiliary	p Data Set Descriptors wrt a pre-determine 1 9T232911_20130220T010824_B001 r Correction Error Check	AUX File CS_OPER_AUX_ORBDOR_201302 002325_0001	Comment 18T215525_20130220T Coverage missing for intervals [2013-02- 20T00:23:25, 2013-02-20T01:08:24]
5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_20130218 5.4 L2 Flagged Auxiliary Each product is checked to spot aux	p Data Set Descriptors wrt a pre-determine 1 9T232911_20130220T010824_B001 r Correction Error Check	AUX File CS_OPER_AUX_ORBDOR_201302	Comment 18T215525_20130220T Coverage missing for intervals [2013-02- 20T00:23:25, 2013-02-20T01:08:24]
5.3 L2 Auxiliary Data File Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_20130218 5.4 L2 Flagged Auxiliary Each product is checked to spot aux	p Data Set Descriptors wrt a pre-determine 1 9T232911_20130220T010824_B001 r Correction Error Check	AUX File CS_OPER_AUX_ORBDOR_201302 002325_0001	Comment 18T215525_20130220T Coverage missing for intervals [2013-02- 20T00:23:25, 2013-02-20T01:08:24]
Number of products with errors: Product CS_OFFL_SIR_GDR_2A_20130218 5.4 L2 Flagged Auxiliary Each product is checked to spot aux Number of products with errors: Product	g Data Set Descriptors wrt a pre-determine 1 9T232911_20130220T010824_B001 Correction Error Check kiliary corrections flagged by the ground-st	AUX File CS_OPER_AUX_ORBDOR_201302 002325_0001	Comment 18T215525_20130220T Coverage missing for intervals [2013-02- 20T00:23:25, 2013-02-20T01:08:24] ining errors

 CS\_OFFL\_SIR\_LRM\_2\_20130220T055009\_20130220T060035\_B001
 Dynamic atmosphere correction error

 CS\_OFFL\_SIR\_LRM\_2\_20130220T15739\_20130220T120046\_B001
 Dynamic atmosphere correction error

 CS\_OFFL\_SIR\_LRM\_2\_20130220T175541\_20130220T180021\_B001
 Dynamic atmosphere correction error

 CS\_OFFL\_SIR\_SIN\_2\_20130210T255914\_20130220T000213\_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_20130220T113117_20130220T113618_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.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_GDR_2A	16	14	0	14	0
SIR_LRM_1B	159	158	158	0	0
SIR_LRM_2	156	156	0	156	0
SIR_SAR_1B	138	138	0	138	0
SIR_SAR_2A	98	98	7	91	0
SIR_SIN_1B	97	96	0	96	0
SIR_SIN_2	95	94	0	94	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\_20130219T232911\_20130220T010824\_B001

0

4

CS\_OFFL\_SIR\_LRM\_1B\_20130220T012534\_20130220T012815\_B001

CS\_OFFL\_SIR\_SIN\_1B\_20130219T235914\_20130220T000213\_B001

CS\_OFFL\_SIR\_SIN\_2\_20130219T235914\_20130220T000213\_B001