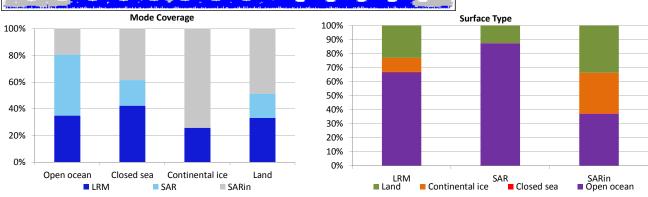


Mode Coverage(%)					
	LRM	68.49			
	SAR	17.65			
	SIN	13.67			



	3	b. Instrument configuration	
he SIRAL instrument configuration	n for the day of acquisition is provided be	elow.	
RAL instrument(s) in use:	SIRAL - A		
Star Tracker(s) in use:	Star Tracker 1 & 2		
		Level 1B Data Quality Check	
1 L1 Product Format C			
ch product, retrieved and unpack mber of products with errors:	ted from the science server, is checked	to ensure it consists of both an XML header file (.H	IDR) and a product file (.DBL).
2 L1B Product Header	Analysis		
r all products, a series of pre-defi	ined 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.
mber of products with errors:	0		
3 L1B Auxilary Data Fi	ile Usage Check		
ch product is checked for missing	g Data Set Descriptors wrt a pre-determ	nined baseline and also to check the validity of Auxi	iliary Data Files is correct.
mber of products with errors:	0		
4 L1B Flagged Auxilia	ry Correction Error Check		
		d-station processing chain as missing or containing	errors
mber of products with errors:	4		
OFFL SIR LRM 1B 20130309	9T234054_20130310T001536_B001	Test Failed Dynamic atmosphere correction er	rror
_OFFL_SIR_LRM_1B_20130310	0T175541_20130310T180139_B001	Dynamic atmosphere correction er	
	0T055915_20130310T060136_B001	Dynamic atmosphere correction er	101
	T115701_20130310T120011_B001	Dynamic atmosphere correction er	rror
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C voSat L1B data includes a measu	onfidence Data Check	Dynamic atmosphere correction er	
_OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: duct _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_SAR_1B_20130310	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001	for each measurement record. The bit value of this Test Failed Attitude correction missing	
_OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C roSat L1B data includes a measu mber of products with errors: pduct _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_RAM_1B_20130310 _OFFL_SIR_SAR_1B_20130310	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001	for each measurement record. The bit value of this Test Failed Attitude correction missing Attitude correction missing Attitude correction missing	flag indicates any problems when set.
SUPPL_SIR_SIN_1B_20130310 5 L1B Measurement C yoSat L1B data includes a measuremet of products with errors: pduct SUPPL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 SUPPL_SIR_SAR_1B_20130310 SAR_1B_20130310	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035102_20130310T235436_B001 0T040326_20130310T235534_B001 T235436_20130310T235534_B001 5.	for each measurement record. The bit value of this Test Failed Attitude correction missing	flag indicates any problems when set.
_OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C roSat L1B data includes a measu mber of products with errors: bduct _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_SAR_1B_20130310 _OFFL_SIR_SIN_1B_20130310 _OFFL_SIR_SIN_1B_20130310 	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001 T235436_20130310T235534_B001 5. Check	for each measurement record. The bit value of this Test Failed Attitude correction missing	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: oduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 OFFL_SIR_SIN_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001 T235436_20130310T235534_B001 5. Check	for each measurement record. The bit value of this Test Failed Attitude correction missing	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: oduct _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_SAR_1B_20130310 _OFFL_SIR_SAR_1B_20130310 _OFFL_SIR_SIN_1B_20130310 	onfidence Data Check arement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001 T235436_20130310T235534_B001 5. Check ted from the science server, is checked 0	for each measurement record. The bit value of this Test Failed Attitude correction missing	flag indicates any problems when set.
_OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C roSat L1B data includes a measu mber of products with errors: pduct _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_LRM_1B_20130310 _OFFL_SIR_SIN_1B_20130310 _OFFL_SIR_SIN_1B_20130310 _OFFL_SIR_SIN_1B_20130310 	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035110_20130310T235436_B001 0T040326_20130310T235534_B001 TZ35436_20130310T235534_B001 5. Check ted from the science server, is checked 0 Analysis	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C roSat L1B data includes a measu mber of products with errors: pduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SIN_1B_20130310 I L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035110_20130310T235436_B001 0T040326_20130310T235534_B001 TZ35436_20130310T235534_B001 5. Check ted from the science server, is checked 0 Analysis	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: oduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SIN_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-defi mber of products with errors:	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035104_20130310T235436_B001 0T040326_20130310T235534_B001 T235436_20130310T235534_B001 5. Check acd from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C roSat L1B data includes a measuremet mber of products with errors: roduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-definemet of products with errors: 3 L2 Auxiliary Data File	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035102_20130310T040512_B001 0T040326_20130310T040512_B001 TZ35436_20130310T235534_B001 5. Check ted from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: aduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 OFFL_SIR_SAR_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-define mber of products with errors: 3 L2 Auxiliary Data File	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035102_20130310T040512_B001 0T040326_20130310T040512_B001 TZ35436_20130310T235534_B001 5. Check ted from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H to ensure it consists of both an XML header file (.H t and SPH in order to identify any inconsistencies a	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: oduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SIN_1B_20130310 OFFL_SIR_SIN_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-defi mber of products with errors: 3 L2 Auxiliary Data Fill ch product is checked for missing	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001 TZ35436_20130310T235534_B001 5. Check add from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check g Data Set Descriptors wrt a pre-determ	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H to ensure it consists of both an XML header file (.H t and SPH in order to identify any inconsistencies a	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: duct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 OFFL_SIR_SIN_1B_20130310 I L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-defi mber of products with errors: 3 L2 Auxiliary Data File ch product is checked for missing mber of products with errors: 3 L2 Auxiliary Data File	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001 TZ35436_20130310T235534_B001 5. Check add from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check g Data Set Descriptors wrt a pre-determ	for each measurement record. The bit value of this Test Failed Attitude correction missing to ensure it consists of both an XML header file (.H It and SPH in order to identify any inconsistencies a hined baseline and also to check the validity of Auxi	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: oduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 OFFL_SIR_SIN_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-defi mber of products with errors: 3 L2 Auxiliary Data File ch product is checked for missing mber of products with errors: 3 L2 Auxiliary Data File ch product suth errors: aduct _OFFL_SIR_GDR_2A_2013030	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T235110_20130310T235436_B001 0T040326_20130310T235534_B001 T235436_20130310T235534_B001 5. Check add from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check g Data Set Descriptors wrt a pre-determ 2	for each measurement record. The bit value of this Test Failed Attitude correction missing It unde correction missing Attitude correction missing It and SPH in order to identify any inconsistencies a nined baseline and also to check the validity of Auxi CS_OPER_AUX_ORBDOR_20130308T2 002325_0001	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measurement of products with errors: duct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 OFFL_SIR_SAR_1B_20130310 1 L2 Product Format C th product, retrieved and unpacken mber of products with errors: 2 L2 Product Header A all products, a series of pre-definite mber of products with errors: 3 L2 Auxiliary Data File th product is checked for missing mber of products with errors: 3 L2 Auxiliary Data File th product is checked for missing mber of products with errors: 4 L2 PIC OFFL_SIR_GDR_2A_2013030 _OFFL_SIR_GDR_2A_2013031	onfidence Data Check urement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T035110_20130310T235436_B001 0T040326_20130310T040512_B001 TZ35436_20130310T235534_B001 5. Check ted from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check g Data Set Descriptors wrt a pre-determ 2 197230710_20130310T004623_B001	for each measurement record. The bit value of this Test Failed Attitude correction missing Level 2 Data Quality Check to ensure it consists of both an XML header file (.F and SPH in order to identify any inconsistencies a nined baseline and also to check the validity of Auxi CS_OPER_AUX_ORBDOR_20130308T2 002325_0001 CS_OPER_AUX_ORBDOR_20130309T2	flag indicates any problems when set.
OFFL_SIR_SIN_1B_20130310 5 L1B Measurement C oSat L1B data includes a measu mber of products with errors: oduct OFFL_SIR_LRM_1B_20130310 OFFL_SIR_LRM_1B_20130310 OFFL_SIR_SAR_1B_20130310 OFFL_SIR_SIN_1B_20130310 1 L2 Product Format C ch product, retrieved and unpack mber of products with errors: 2 L2 Product Header A all products, a series of pre-defi mber of products with errors: 3 L2 Auxiliary Data File ch product is checked for missing mber of products with errors: 3 L2 Auxiliary Data File ch product is checked for missing mber of products with errors: 3 L2 Auxiliary Data File Ch product is checked for missing mber of products with errors: 4 L2 Flagged Auxiliary	onfidence Data Check arement confidence flag word (field 14) 4 0T035104_20130310T040326_B001 0T23510_20130310T235436_B001 0T040326_20130310T2040512_B001 T235436_20130310T235534_B001 5. Check ted from the science server, is checked 0 Analysis ined checks are carried out on the MPH 0 e Usage Check g Data Set Descriptors wrt a pre-determ 2 9T230710_20130310T004623_B001 0T235533_20130311T013447_B001 / Correction Error Check	for each measurement record. The bit value of this Test Failed Attitude correction missing Level 2 Data Quality Check to ensure it consists of both an XML header file (.F and SPH in order to identify any inconsistencies a nined baseline and also to check the validity of Auxi CS_OPER_AUX_ORBDOR_20130308T2 002325_0001 CS_OPER_AUX_ORBDOR_20130309T2	flag indicates any problems when set.

Product	Test Failed
CS_OFFL_SIR_LRM_220130309T234054_20130310T001536_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130310T175541_20130310T180139_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SAR_2A_20130310T055915_20130310T060136_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_220130310T115701_20130310T120010_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:

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	19	17	0	17	0
SIR_LRM_1B	152	151	151	0	0
SIR_LRM_2	152	151	2	149	0
SIR_SAR_1B	142	142	0	142	0
SIR_SAR_2A	106	105	3	102	0
SIR_SIN_1B	108	108	0	108	0
SIR_SIN_2	104	104	0	104	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_20130309T230710_20130310T004623_B001

 CS_OFFL_SIR_LRM_1B_20130309T234054_20130310T001536_B001

 CS_OFFL_SIR_LRM_2_20130309T234054_20130310T001536_B001

 CS_OFFL_SIR_LRM_2_20130309T234054_20130310T01536_B001

 CS_OFFL_SIR_SAR_2A_20130310T131403_20130310T131550_B001

0

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