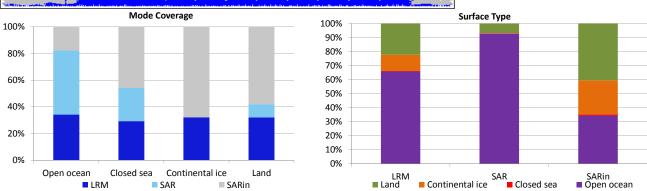


Мо	Mode Coverage(%)				
	LRM	66.16			

LRIVI	66.16	
SAR	18.78	
SIN	14.90	



		3. Instrument Configu	ration	
The SIRAL instrument configuration	n for the day of acquisition is provi	ided below.		
SIRAL instrument(s) in use	SIRAL - A			
Star Tracker(s) in use:	Star Tracker 2 and 3			
		4. Level 1B Data Quality	· Chack	
	2hook		Check	
4.1 L1 Product Format C		advad ta analyse it appoints of both on VMI	headerfile (LIDD) and a product	
Number of products with errors:		ecked to ensure it consists of both an XML		ine (.DDL).
4.2 L1B Product Header	Analvsis			
	,			
For all products, a series of pre-defi	ined checks are carried out on the	e MPH and SPH in order to identify any inc	onsistencies and/or errors raised	by the ground-segment processing chain.
Number of products with errors:	0			
4.3 L1B Auxilary Data Fi	ile Usage Check			
Each product is checked for missing	g Data Set Descriptors wrt a pre-d	determined baseline and also to check the	validity of Auxiliary Data Files is c	prrect.
Number of products with errors:	0			
4.4 L1B Flagged Auxilia	ry Correction Error Ch	eck		
		ground-station processing chain as missing	or containing errors	
Number of products with errors:	2	ground-station processing chain as missing	or containing errors	
Product	-	Test Failed		
CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_SIN_1B_20120831		001 Dynamic atmospher		
4.5.1.1B Measurement C	onfidence Data Check			
	urement confidence flag word (fiel	ld 14) for each measurement record. The b	it value of this flag indicates any p	problems when set.
CryoSat L1B data includes a measu Number of products with errors:				problems when set.
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083	urement confidence flag word (fiel 2 1T060334_20120831T060636_B6	ld 14) for each measurement record. The b Test Failed 001 TRK echo error	Description The tracking e	echo has returned an error
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083	urement confidence flag word (fiel 2 1T060334_20120831T060636_B6	Id 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error	Description The tracking e The tracking e	
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083	urement confidence flag word (fiel 2 1T060334_20120831T060636_Bd 1T211206_20120831T211652_Bd	ld 14) for each measurement record. The b Test Failed 001 TRK echo error	Description The tracking e The tracking e	echo has returned an error
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C	urement confidence flag word (fiel 2 1T060334_20120831T060636_B0 1T211206_20120831T211652_B0 Check	d 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality	Description The tracking of The tracking of Check	acho has returned an error coho has returned an error
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C	urement confidence flag word (fiel 2 1T060334_20120831T060636_B0 1T211206_20120831T211652_B0 Check	Id 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error	Description The tracking of The tracking of Check	acho has returned an error coho has returned an error
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors:	urement confidence flag word (fiel 2 1T060334_20120831T060636_B4 1T211206_20120831T211652_B4 Check and from the science server, is check 0	d 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality	Description The tracking of The tracking of Check	acho has returned an error coho has returned an error
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack	urement confidence flag word (fiel 2 1T060334_20120831T060636_B4 1T211206_20120831T211652_B4 Check and from the science server, is check 0	d 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality	Description The tracking of The tracking of Check	acho has returned an error coho has returned an error
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi	urement confidence flag word (fiel 2 1T060334_20120831T060636_Bi 1T211206_20120831T211652_Bi Check ted from the science server, is che 0 Analysis ined checks are carried out on the	d 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality	Description The tracking of The tracking of Check	echo has returned an error echo has returned an error roduct file (.DBL)
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors:	urement confidence flag word (fiel 2 1T060334_20120831T060636_Bt 1T211206_20120831T211652_Bt Check ted from the science server, is che 0 Analysis ined checks are carried out on the 0	Id 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality ecked to ensure it consists of both an XML	Description The tracking of The tracking of Check	echo has returned an error echo has returned an error roduct file (.DBL)
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi	urement confidence flag word (fiel 2 1T060334_20120831T060636_Bt 1T211206_20120831T211652_Bt Check ted from the science server, is che 0 Analysis ined checks are carried out on the 0	Id 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality ecked to ensure it consists of both an XML	Description The tracking of The tracking of Check	echo has returned an error echo has returned an error roduct file (.DBL)
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fil Each product is checked for missing	urement confidence flag word (fiel 2 1T060334_20120831T060636_Bi 1T211206_20120831T211652_Bi Check ted from the science server, is che 0 Analysis ined checks are carried out on the 0 e Usage Check g Data Set Descriptors wrt a pre-d	Id 14) for each measurement record. The b Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality ecked to ensure it consists of both an XML	Description The tracking of The tracking of Check header file (.HDR) and a binary p	echo has returned an error echo has returned an error roduct file (.DBL)
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fill Each product is checked for missing Number of products with errors:	Irement confidence flag word (fiel 2 1T060334_20120831T060636_B 1T211206_20120831T211652_B Check and from the science server, is che 0 Analysis ined checks are carried out on the 0 e Usage Check	Id 14) for each measurement record. The b Test Failed TRK echo error Annu tracked to ensure it consists of both an XML e MPH and SPH in order to identify any incode determined baseline and also to check the e	Description The tracking of The tracking of Check header file (.HDR) and a binary p	echo has returned an error echo has returned an error roduct file (.DBL) by the ground-segment processing chain
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fil Each product is checked for missing Number of products with errors: Product	urement confidence flag word (fiel 2 1T060334_20120831T060636_Bt 1T211206_20120831T211652_Bt Check ted from the science server, is che 0 Analysis ined checks are carried out on the 0 e Usage Check g Data Set Descriptors wrt a pre-d 2	Test Failed Test Failed 001 TRK echo error 001 TRK echo error 5. Level 2 Data Quality ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML ekked to ensure it consists of both an XML ekked to ensure it consists of both an XML determined baseline and also to check the second AUX File CS_OPER_AUX_ORBDOR	Description The tracking of The tracking of Check header file (.HDR) and a binary p	echo has returned an error echo has returned an error roduct file (.DBL) by the ground-segment processing chain prrect Comment Coverage of missing for intervals [2012-08-
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fill Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_2012083	urement confidence flag word (fiel 2 1T060334_20120831T060636_BI 1T211206_20120831T211652_BI Check cd Check cd 0 Analysis ined checks are carried out on the 0 e Usage Check g Data Set Descriptors wrt a pre-d 2 07225300_20120831T003213_B	Test Failed Test Failed 001 TRK echo error 001 TRK echo error S. Level 2 Data Quality ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML determined baseline and also to check the second colspan="2">OCC OPER_AUX_ORBDOR 002325_0001 CS_OPER_AUX_ORBDOR 002325_0001 CS_OPER_AUX_ORBDOR 002325_0001	Description The tracking of The tracking of Check header file (.HDR) and a binary p ponsistencies and/or errors raised b validity of Auxiliary Data Files is c _20120829T215525_20120831T	echo has returned an error echo has returned an error roduct file (.DBL) by the ground-segment processing chain prrect
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fil Each product is checked for missing Number of products with errors: Product	urement confidence flag word (fiel 2 1T060334_20120831T060636_BI 1T211206_20120831T211652_BI Check cd Check cd 0 Analysis ined checks are carried out on the 0 e Usage Check g Data Set Descriptors wrt a pre-d 2 07225300_20120831T003213_B	Test Failed Test Failed 001 TRK echo error 001 TRK echo error S. Level 2 Data Quality ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML determined baseline and also to check the second colspan="2">OCC OPER_AUX_ORBDOR 002325_0001 CS_OPER_AUX_ORBDOR 002325_0001 CS_OPER_AUX_ORBDOR 002325_0001	Description The tracking of The tracking of Check header file (.HDR) and a binary p ponsistencies and/or errors raised b validity of Auxiliary Data Files is c _20120829T215525_20120831T	echo has returned an error echo has returned an error roduct file (.DBL) by the ground-segment processing chain prrect Comment Coverage of missing for intervals [2012-08- 31T00:23:25, 2012-08-31T00:32:13]
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fill Each product is checked for missing Number of products with errors: Product CS_OFFL_SIR_GDR_2A_2012083	urement confidence flag word (fiel 2 1T060334_20120831T060636_BI 1T211206_20120831T211652_BI Check ted from the science server, is che 0 Analysis ined checks are carried out on the 0 e Usage Check g Data Set Descriptors wrt a pre-d 2 0 1T225300_20120831T003213_B 1T234123_20120901T012037_B	Test Failed Test Failed 001 TRK echo error 001 TRK echo error S. Level 2 Data Quality ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML determined baseline and also to check the test determined baseline and also to check the test 001 CS_OPER_AUX_ORBDOR 002325_0001 001 CS_OPER_AUX_ORBDOR 002325_0001 001 CS_OPER_AUX_ORBDOR 002325_0001	Description The tracking of The tracking of Check header file (.HDR) and a binary p ponsistencies and/or errors raised b validity of Auxiliary Data Files is c _20120829T215525_20120831T	echo has returned an error coho has returned an error roduct file (.DBL) by the ground-segment processing chain prrect Comment Coverage of missing for intervals [2012-08- 31T00:23:25, 2012-08-31T00:32:13] Coverage of missing for intervals [2012-09-
CryoSat L1B data includes a measu Number of products with errors: Product CS_OFFL_SIR_LRM_1B_2012083 CS_OFFL_SIR_LRM_1B_2012083 5.1 L2 Product Format C Each product, retrieved and unpack Number of products with errors: 5.2 L2 Product Header A For all products, a series of pre-defi Number of products with errors: 5.3 L2 Auxiliary Data Fill Each product is checked for missing Number of products with errors: Froduct CS_OFFL_SIR_GDR_2A_2012083 CS_OFFL_SIR_GDR_2A_2012083	urement confidence flag word (fiel 2 11060334_20120831T060636_BI 11211206_20120831T211652_BI Check c 0 Analysis ined checks are carried out on the 0 e Usage Check g Data Set Descriptors wrt a pre-d 2 i0T2225300_20120831T003213_B i1T234123_20120901T012037_B / Correction Error Check	Test Failed Test Failed 001 TRK echo error 001 TRK echo error S. Level 2 Data Quality ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML ecked to ensure it consists of both an XML determined baseline and also to check the test determined baseline and also to check the test 001 CS_OPER_AUX_ORBDOR 002325_0001 001 CS_OPER_AUX_ORBDOR 002325_0001 001 CS_OPER_AUX_ORBDOR 002325_0001	Description The tracking of The tracking of The tracking of Check header file (.HDR) and a binary p binsistencies and/or errors raised binary validity of Auxiliary Data Files is of _20120829T215525_20120831T _20120830T215525_20120901T	echo has returned an error coho has returned an error roduct file (.DBL) by the ground-segment processing chain prrect Comment Coverage of missing for intervals [2012-08- 31T00:23:25, 2012-08-31T00:32:13] Coverage of missing for intervals [2012-09-

 Product
 Test Failed

 CS_OFFL_SIR_LRM_2_20120831T1512_20120831T121717_B001
 Dynamic atmosphere correction error

 CS_OFFL_SIR_SIN_2_20120831T055710_20120831T060131_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	21	21	0	21	0
SIR_LRM_1B	114	119	108	11	0
SIR_LRM_2	115	118	0	118	0
SIR_SAR_1B	85	86	0	86	0
SIR_SAR_2A	73	87	3	84	0
SIR_SIN_1B	94	96	0	96	0
SIR_SIN_2	95	96	0	96	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_20120830T225300_20120831T003213_B001 CS OFFL SIR LRM 2 20120831T142611 20120831T143544 B001 CS_OFFL_SIR_SAR_1B_20120830T235619_20120831T000304_B001 CS_OFFL_SIR_SAR_1B_20120831T143605_20120831T143607_B001 CS_OFFL_SIR_SAR_2A_20120830T235619_20120831T000304_B001