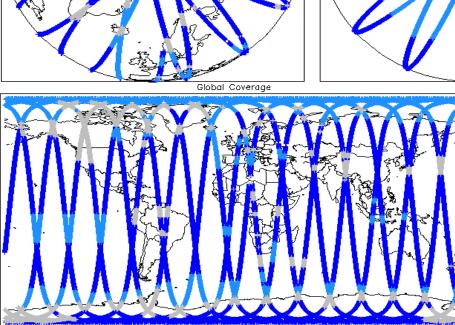
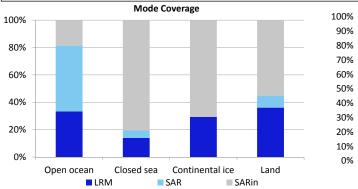


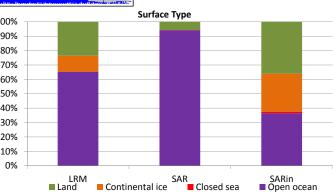
IDEAS

		Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
		Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Domont Draduction Data:	20 May 2012	Product Format Check Nominal		
Report Production Date:	29-May-2013	Product Header Analysis	Nominal	
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data File Usage	Nominal	
	Data	Auxiliary Correction Check	See Section 4.4 and 5.4	
		Measurement Data Set Check	See Section 4.5	
Jul-2012 None	ed	2 Global Coverage		
0-Jul-2012 None 1-Jul-2012 Nothing plann	ed overage (north pole view)	2. Global Coverage Global Coverage (south	pole view)	



Mode Coverage(%)			
	LRM	66.47	
	SAR	19.41	
	SIN	13.95	





	3. Ir	nstrument Configuratio	n
he SIRAL instrument configuration	for the day of acquisition is provided below.		
IRAL instrument(s) in use:	SIRAL - A		
Star Tracker(s) in use:	Star Tracker 2		
	4. Lev	vel 1B Data Quality Che	eck
4.1 L1 Product Format Cl	heck		
Each product, retrieved and unpacke	ed from the science server, is checked to er	nsure 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-defin	ned checks are carried out on the MPH and	SPH in order to identify any inconsister	ncies and/or errors raised by the ground-segment processing chain.
Number of products with errors:			
4.3 L1B Auxilary Data Fil	-		
Each product is checked for missing	Data Set Descriptors wrt a pre-determined	baseline and also to check the validity of	of Auxiliary Data Files is correct.
Number of products with errors:	0		
4.4 L1B Flagged Auxiliar	y Correction Error Check		
Each product is checked to spot auxi	iliary corrections flagged by the ground-stat	tion processing chain as missing or cont	aining errors
Number of products with errors:	3		-
-	J	Test Telled	
Product CS OFFL SIR LRM 1B 20120730	T055244 20120730T061606 B001	Test Failed Dynamic atmosphere correct	tion error
CS_OFFL_SIR_LRM_1B_20120730		Dynamic atmosphere correct	
CS_OFFL_SIR_SAR_1B_20120730	T175831_20120730T180116_B001	Dynamic atmosphere correct	tion error
4.5 L1B Measurement Co	onfidence Data Check		
CryoSat L1B data includes a measur	rement confidence flag word (field 14) for e	ach measurement record. The bit value	of this flag indicates any problems when set.
Number of products with errors:	6		
		Test Failed	
Product			Description
	T000731_20120730T000953_B001	TRK echo error	The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730			· · · · · · · · · · · · · · · · · · ·
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	T050533_20120730T051715_B001	TRK echo error	The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	0T050533_20120730T051715_B001 0T064242_20120730T065342_B001 0T145523_20120730T150518_B001	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	01050533_201207301051715_B001 01064242_201207301065342_B001 01145523_201207301150518_B001 01195528_201207301200235_B001	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	01050533_201207301051715_B001 01064242_201207301065342_B001 01145523_201207301150518_B001 01195528_201207301200235_B001 01195528_201207301213710_B001	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	01050533_201207301051715_B001 01064242_201207301065342_B001 01145523_201207301150518_B001 01195528_201207301200235_B001 01195528_201207301213710_B001	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	01050533_201207301051715_B001 01064242_201207301065342_B001 01145523_201207301150518_B001 01195528_201207301200235_B001 011213027_201207301213710_B001 5. Le	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	01050533_201207301051715_B001 01064242_201207301065342_B001 01145523_201207301150518_B001 01195528_201207301200235_B001 011213027_201207301213710_B001 5. Le	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
Product CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730	01050533_20120730T051715_B001 01064242_20120730T065342_B001 01145523_20120730T150518_B001 01145528_20120730T200235_B001 01213027_20120730T213710_B001 5. Le heck	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 5.1 L2 Product Format CI Each product, retrieved and unpacke	000050533_20120730T051715_B001 00064242_20120730T065342_B001 00145523_20120730T150518_B001 00195528_20120730T200235_B001 0010000000000000000000000000000000	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 5.1 L2 Product Format CI Each product, retrieved and unpacket Number of products with errors: 5.2 L2 Product Header An	000050533_20120730T051715_B001 00064242_20120730T065342_B001 001145523_20120730T150518_B001 001195528_20120730T200235_B001 001213027_20120730T213710_B001 5. Le heck ed from the science server, is checked to er 0 nalysis	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error Ck file (.HDR) and a binary product file (.DBL)
CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 CS_OFFL_SIR_LRM_1B_20120730 5.1 L2 Product Format CI Each product, retrieved and unpacket Number of products with errors: 5.2 L2 Product Header An	000050533_20120730T051715_B001 00064242_20120730T065342_B001 001145523_20120730T150518_B001 001195528_20120730T200235_B001 001213027_20120730T213710_B001 5. Le heck ed from the science server, is checked to er 0 nalysis	TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error

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

0

3

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220120730T055244_20120730T061606_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220120730T113831_20120730T121317_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SAR_2A_20120730T175831_20120730T180116_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

0

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	16	14	0	14	0
SIR_LRM_1B	131	131	119	12	0
SIR_LRM_2	131	131	3	128	0
SIR_SAR_1B	91	91	0	91	0
SIR_SAR_2A	91	91	11	80	0
SIR_SIN_1B	113	112	0	112	0
SIR_SIN_2	113	112	0	112	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: