

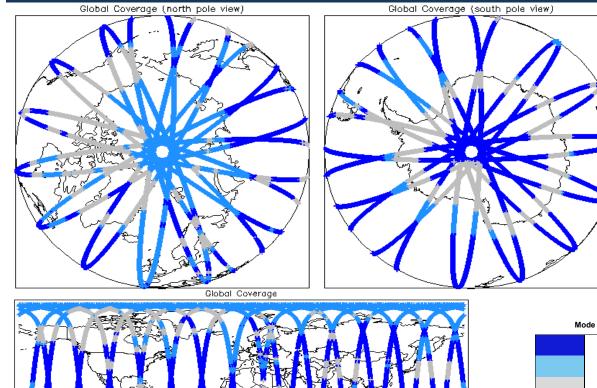


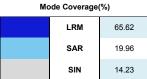
1. Overview				
		Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
		Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Report Production Date:	04-Apr-2013	Product Format Check	Nominal	
Report Production Date.		Product Header Analysis	Nominal	
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data File Usage	See Section 5.3	
Data Used:	Data	Auxiliary Correction Check	See Section 4.4 and 5.4	
		Measurement Data Set Check	See Section 4.5	

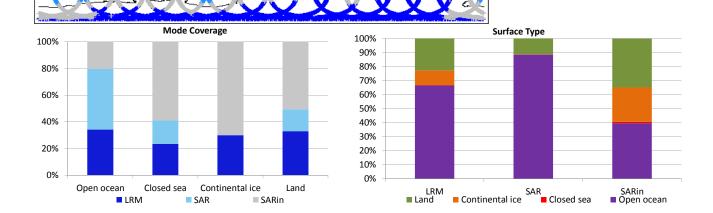
Mission / Instrun	nent News
02-Mar-2013	None
03-Mar-2013	None

04-Mar-2013 Ground Segment Anomaly from 02:02:18 to 06:33:36, and from 09:38:16 to 16:14:30. SAR & SARIn data affected.

2. Global Coverage







		3. Instrum	ent Configuration	
he SIRAL instrument configuration	for the day of acquisition is provide	ed below.		
IRAL instrument(s) in use	SIRAL - A			
Star Tracker(s) in use:	Star Tracker 1 & 2			
		4. Level 1B	Data Quality Check	x
4.1 L1 Product Format C				
Each product, retrieved and unpack	ed from the science server is chec	ked to ensure it con	sists of both an XML beader file (HDR) and a product file (DBI)
Number of products with errors:	0			
4.2 L1B Product Header	Analysis			
or all products, a series of pre-defir	ned checks are carried out on the M	MPH and SPH in ord	ler to identify any inconsistencies	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	Data Set Descriptors wrt a pre-det	termined baseline a	nd also to check the validity of Au	uxiliary Data Files is correct.
Number of products with errors:	0			
4.4 L1B Flagged Auxilia	ry Correction Error Che	ck		
Each product is checked to spot aux	iliary corrections flagged by the gro	ound-station proces	sing chain as missing or containin	ng errors
lumber of products with errors:	3			-
Product			Test Failed	
CS_OFFL_SIR_LRM_1B_20130303 CS_OFFL_SIR_LRM_1B_20130303			Dynamic atmosphere correction Dynamic atmosphere correction	
CS_OFFL_SIR_SAR_1B_20130303			Dynamic atmosphere correction	
4.5 L1B Measurement Co	onfidence Data Check			
CryoSat L1B data includes a measu	rement confidence flag word (field	14) for each measu	rement record. The bit value of th	is flag indicates any problems when set.
Number of products with errors:	4			
Product			Test Failed	Description
CS_OFFL_SIR_LRM_1B_20130303	3T063018_20130303T063851_B00)1	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SAR_1B_20130303	3T163537_20130303T163724_B00)1	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SAR_1B_20130303			Attitude correction missing	The attitude has not been corrected
S_OFFL_SIR_SIN_1B_20130303	T063851_20130303T064240_B001	1	Attitude correction missing	The attitude has not been corrected
		5. Level 2	Data Quality Check	
5.1 L2 Product Format C	heck			
Each product, retrieved and unpack	ed from the science server, is chec	ked to ensure it cor	sists of both an XML header file (.HDR) and a binary product file (.DBL)
lumber of products with errors:	0			
5.2 L2 Product Header A	nalysis			
For all products, a series of pre-defi	ned checks are carried out on the N	MPH and SPH in ord	ler to identify any inconsistencies	and/or errors raised by the ground-segment processing chain
Number of products with errors:	0			
5.3 L2 Auxiliary Data File	e Usage Check			
Each product is checked for missing	Data Set Descriptors wrt a pre-de	termined baseline a	nd also to check the validity of Au	ixiliary Data Files is correct
lumber of products with errors:	2			

Product	AUX File	Comment
CS OFFE SIR GOR 2A 201303031000520 201303031014434 B001	CS_OPER_AUX_ORBDOR_20130301T215525_20130303T 002325_0001	Coverage missing for intervals [2013-03- 03T00:23:25, 2013-03-03T01:44:33]
CS OFFE SIR GOR 2A 201303031231430 201303041005343 B001	CS_OPER_AUX_ORBDOR_20130302T215525_20130304T 002325_0001	Coverage missing for intervals [2013-03- 04T00:23:25, 2013-03-04T00:53:43]

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

4

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220130303T055522_20130303T061012_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130303T175912_20130303T181403_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SAR_2A_20130303T115913_20130303T120906_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_220130302T235935_20130303T000056_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.

0

5

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_GDR_2A	19	18	0	18	0
SIR_LRM_1B	154	154	154	0	0
SIR_LRM_2	154	154	1	153	0
SIR_SAR_1B	162	162	0	162	0
SIR_SAR_2A	112	112	5	107	0
SIR_SIN_1B	113	111	0	111	0
SIR_SIN_2	109	107	0	107	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_20130302T222606_20130303T000520_B001

 CS_OFFL_SIR_SIN_1B_20130302T235934_20130303T000056_B001

 CS_OFFL_SIR_SIN_1B_20130303T232015_20130303T232036_B001

 CS_OFFL_SIR_SIN_1B_20130303T232015_20130303T232036_B001

CS_OFFL_SIR_SIN_2_20130302T235935_20130303T2259_B001 CS_OFFL_SIR_SIN_2_20130303T121136_20130303T121259_B001