





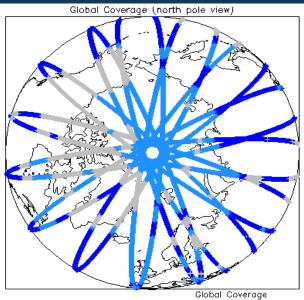


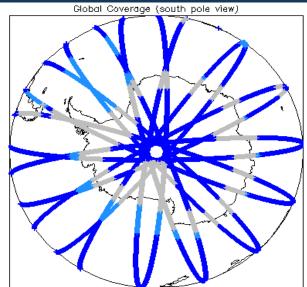
1. Overview

		- Chican	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Report Production Date:	ort Production Date: 02-Apr-2013	Product Format Check	Nominal
Report Froduction Date. 02-Apr-2013	Product Header Analysis	Nominal	
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data File Usage	See Section 5.3
Data Oseu. Data	Auxiliary Correction Check	See Section 4.4 and 5.4	
	<u> </u>	Measurement Data Set Check	See Section 4.5

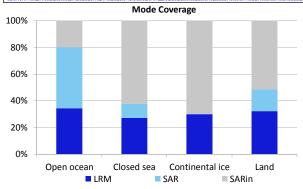
Mission / Instrument News		
28-Feb-2013	None	
01-Mar-2013	None	
02-Mar-2013	Nothing planned	

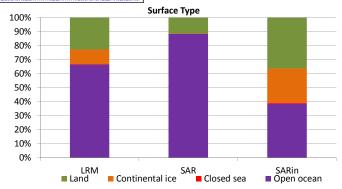
2. Global Coverage





Mode Coverage(%)					
LRM 65.79					
	SAR	19.70			
	SIN	14.32			





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1 & 2

4. Level 1B Data Quality Check

4.1 L1 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

4.3 L1B Auxilary 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:

4.4 L1B 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

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_1B_20130228T235847_20130301T000201_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20130301T055748_20130301T061242_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_1B_20130301T115757_20130301T120143_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_1B_20130301T175945_20130301T180126_B001	Dynamic atmosphere correction error

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set.

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20130301T063330_20130301T064046_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_LRM_1B_20130301T162208_20130301T163804_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SAR_1B_20130301T163804_20130301T164007_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SIN_1B_20130301T064046_20130301T064506_B001	Attitude correction missing	The attitude has not been corrected

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL)

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain

Number of products with errors:

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:

Product	AUX File	Comment
CS OFFE SIR GOR 24 201303011231657 201303021005610 R001	CS_OPER_AUX_ORBDOR_20130228T215525_20130302T 002325_0001	Coverage missing for intervals [2013-03-02T00:23:25, 2013-03-02T00:56:10]
CS OFFE SIR GDR 2A 201303011000747 201303011014700 B001	CS_OPER_AUX_ORBDOR_20130227T215525_20130301T 002325_0001	Coverage missing for intervals [2013-03- 01T00:23:25, 2013-03-01T01:47:00]

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

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220130228T235847_20130301T000201_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130301T055748_20130301T061242_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_2_20130301T115758_20130301T120143_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_220130301T175945_20130301T180126_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

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	18	17	0	17	0
SIR_LRM_1B	153	154	154	0	0
SIR_LRM_2	154	153	0	153	0
SIR_SAR_1B	149	150	0	150	0
SIR_SAR_2A	103	103	5	98	0
SIR_SIN_1B	103	106	0	106	0
SIR SIN 2	103	103	0	103	0

6.1 QCC Errors

Number of products with QCC errors:

0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

3

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CS_OFFL_SIR_GDR_2A_20130228T222833_20130301T000747_B001 CS_OFFL_SIR_LRM_1B_20130228T235847_20130301T000201_B001

CS_OFFL_SIR_LRM_2_20130228T235847_20130301T000201_B001