





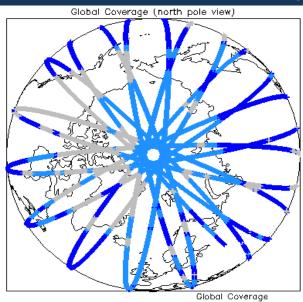


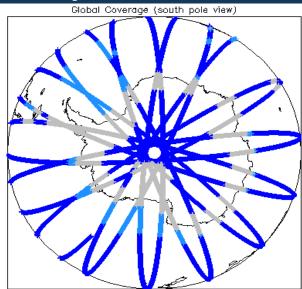
Report Production Date:	11-Mar-2013
Data Used:	OFFLINE L1B and L2 Science Data

Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage	See Section 5.3
Auxiliary Correction Check	See Section 4.4 and 5.4
Measurement Data Set Check	See Section 4.5 and 5.5

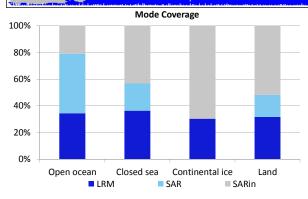
I	Mission / Instrument News		
	07-Feb-2013	None	
	08-Feb-2013	None	
	09-Feb-2013	Nothing planned	

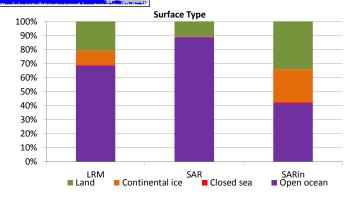
2. Global Coverage





Mode Coverage(%) LRM 65.97 SAR 19.98 SIN 13.85





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	

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:

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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:

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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_20130207T235845_20130208T000103_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20130208T115651_20130208T120347_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20130208T175522_20130208T180449_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SAR_1B_20130208T055957_20130208T060526_B001	Dynamic atmosphere correction error
CS OFFL SIR SIN 1B 20130208T055806 20130208T055957 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20130208T011307_20130208T011735_B001	TRK echo error	The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20130208T011842_20130208T012238_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_LRM_1B_20130208T013634_20130208T013654_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_LRM_1B_20130208T173734_20130208T175320_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_LRM_1B_20130208T184616_20130208T185058_B001	TRK echo error	The tracking echo has returned an error
CS_OFFL_SIR_SAR_1B_20130208T175320_20130208T175522_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SIN_1B_20130208T012238_20130208T012329_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SIN_1B_20130208T013623_20130208T013634_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)

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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: 2

Product	AUX File	Comment
CS OFFE SIR GOR 2A 201302071234352 201302081012305 B001	CS_OPER_AUX_ORBDOR_20130206T215525_20130208T 002325_0001	Coverage missing for intervals [2013-02- 08T00:23:25, 2013-02-08T01:23:05]
CS OFFE SIR GOR 2A 201302081225301 201302091003215 B001	CS_OPER_AUX_ORBDOR_20130207T215525_20130209T 002325_0001	Coverage missing for intervals [2013-02- 09T00:23:25, 2013-02-09T00:32:15]

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_220130207T235845_20130208T000103_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130208T115651_20130208T120347_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130208T175522_20130208T180449_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SAR_2A_20130208T055957_20130208T060526_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:

Test Failed Description CS OFFL SIR SAR 2A 20130208T193149 20130208T193914 B001 Peakiness error There is an error in the peakiness derivation

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	16	0	16	0
SIR_LRM_1B	164	163	161	2	0
SIR_LRM_2	163	162	3	159	0
SIR_SAR_1B	151	157	0	157	0
SIR_SAR_2A	109	109	3	106	0
SIR_SIN_1B	105	107	0	107	0
SIR SIN 2	105	104	0	104	0

6.1 QCC Errors

Number of products with QCC errors:

0

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name
CS_OFFL_SIR_GDR_2A_20130207T234352_20130208T012305_B001
CS_OFFL_SIR_LRM_1B_20130207T235845_20130208T000103_B001
CS_OFFL_SIR_LRM_220130207T235845_20130208T000103_B001
CS_OFFL_SIR_SIN_220130208T103929_20130208T104110_B001