





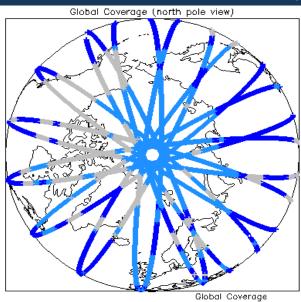


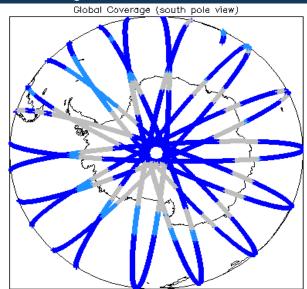
Report Production Date:	27-Mar-2013
Data Used:	OFFLINE L1B and L2 Science Data

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

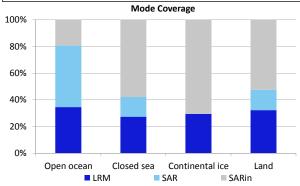
Mission / Instrument News		
	24-Feb-2013	None
	25-Feb-2013	None
	26-Feb-2013	Nothing planned

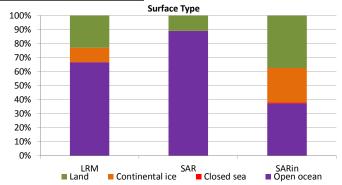
2. Global Coverage





Mode Coverage(%)		
	LRM	65.46
	SAR	19.67
	SIN	14.69





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:

0

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:

Ω

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:

0

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_20130224T235418_20130225T000134_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20130225T055032_20130225T060102_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20130225T112810_20130225T120248_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_1B_20130225T175953_20130225T180013_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_20130225T000418_20130225T001240_B001	TRK echo error	The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20130225T064717_20130225T064944_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SIN_1B_20130225T064944_20130225T064957_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 SID COD 24 201302251232150 201302261010104 R001	CS_OPER_AUX_ORBDOR_20130224T215525_20130226T 002325_0001	Coverage missing for intervals [2013-02- 26T00:23:25, 2013-02-26T01:01:04]

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_220130224T235418_20130225T000134_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130225T055032_20130225T060102_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130225T112810_20130225T120248_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_220130225T175953_20130225T180013_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:

Product	Test Failed	Description
CS_OFFL_SIR_SAR_2A_20130225T140256_20130225T140414_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	20	19	0	19	0
SIR_LRM_1B	163	159	159	0	0
SIR_LRM_2	157	156	0	156	0
SIR_SAR_1B	150	148	0	148	0
SIR_SAR_2A	103	103	2	101	0
SIR_SIN_1B	114	114	0	114	0
SIR_SIN_2	106	107	0	107	0

6.1 QCC Errors

Number of products with QCC errors:

0

6.2 Missing QCC Reports

Number of products with missing QCC reports: 2

Product name
CS_OFFL_SIR_GDR_2A_20130224T223327_20130225T001241_B001
CS_OFFL_SIR_LRM_1B_20130224T235418_20130225T000134_B001
CS_OFFL_SIR_LRM_1B_20130225T234018_20130225T234051_B001
CS OFFL SIR LRM 1B 20130225T234127 20130225T234210 B001
CS OFFL SIR LRM 2 20130224T235418 20130225T000134 B001
CS_OFFL_SIR_LRM_2_20130225T135438_20130225T135505_B001
CS_OFFL_SIR_LRM_220130225T135603_20130225T135905_B001
CS_OFFL_SIR_LRM_220130225T140247_20130225T140256_B001
CS_OFFL_SIR_LRM_220130225T140414_20130225T140553_B001
CS_OFFL_SIR_LRM_220130225T140626_20130225T141933_B001
CS_OFFL_SIR_LRM_220130225T142121_20130225T143446_B001
CS_OFFL_SIR_LRM_220130225T143803_20130225T144128_B001
CS_OFFL_SIR_LRM_220130225T144734_20130225T151333_B001
CS_OFFL_SIR_LRM_220130225T151725_20130225T151943_B001
CS_OFFL_SIR_LRM_220130225T152248_20130225T152256_B001
CS_OFFL_SIR_LRM_220130225T152259_20130225T152456_B001
CS_OFFL_SIR_SAR_1B_20130225T211148_20130225T211302_B001
CS_OFFL_SIR_SAR_1B_20130225T212415_20130225T212433_B001
CS_OFFL_SIR_SAR_2A_20130225T134501_20130225T135438_B001
CS_OFFL_SIR_SIN_220130225T121855_20130225T122018_B001
CS_OFFL_SIR_SIN_2_20130225T123254_20130225T123438_B001
CS_OFFL_SIR_SIN_220130225T124549_20130225T124840_B001
CS_OFFL_SIR_SIN_220130225T125547_20130225T125712_B001
CS OFFL SIR SIN 2 20130225T130227 20130225T130530 B001