



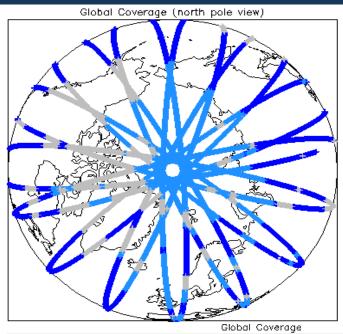
1. Overview

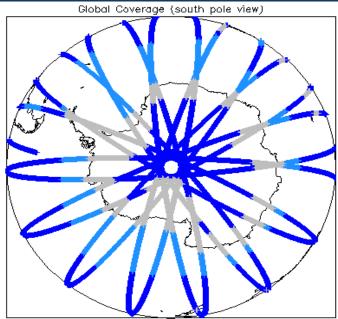
Report Production Date:	05-Feb-2013		
Data Used:	OFFLINE L1B and L2 Science Data		

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	Nominal		
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		
	17-Nov-2012	None	
	18-Nov-2012	None	
	19-Nov-2012	Nothing planned	

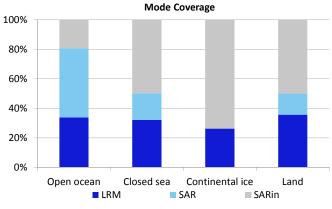
2. Global Coverage

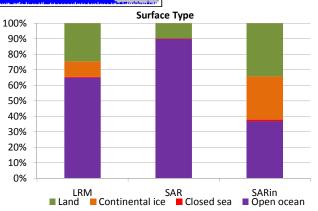




LRM 65.04 SAR 21.14 SIN 13.63

Mode Coverage(%)





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:

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_20121117T235555_20121118T000109_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20121118T055635_20121118T060146_B001	Dynamic atmosphere correction error
	Dynamic atmosphere correction error
CS OFFL SIR LRM 1B 20121118T173936 20121118T180045 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_20121118T092644_20121118T093905_B001	Attitude corr. miss.	The attitude has not been corrected
CS_OFFL_SIR_LRM_1B_20121118T233840_20121118T234329_B001	TRK echo error	The tracking echo has returned an error
CS OFFL SIR SAR 1B 20121118T093905 20121118T094059 B001	Attitude corr. miss.	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:

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:

4

Product	Test Failed
CS_OFFL_SIR_LRM_220121117T235555_20121118T000109_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220121118T055635_20121118T060146_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220121118T115929_20121118T120004_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220121118T173936_20121118T180045_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:

- 1

Product	Test Failed	st Failed Description	
CS_OFFL_SIR_SAR_2A_20121118T045756_20121118T050114_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	17	15	0	15	0
SIR_LRM_1B	154	153	142	11	0
SIR_LRM_2	151	150	1	149	0
SIR_SAR_1B	140	140	0	140	0
SIR_SAR_2A	100	100	6	94	0
SIR_SIN_1B	103	103	0	103	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:

Product name

CS_OFFL_SIR_LRM_1B_20121117T235555_20121118T000109_B001 CS_OFFL_SIR_LRM_2__20121117T235555_20121118T000109_B001