

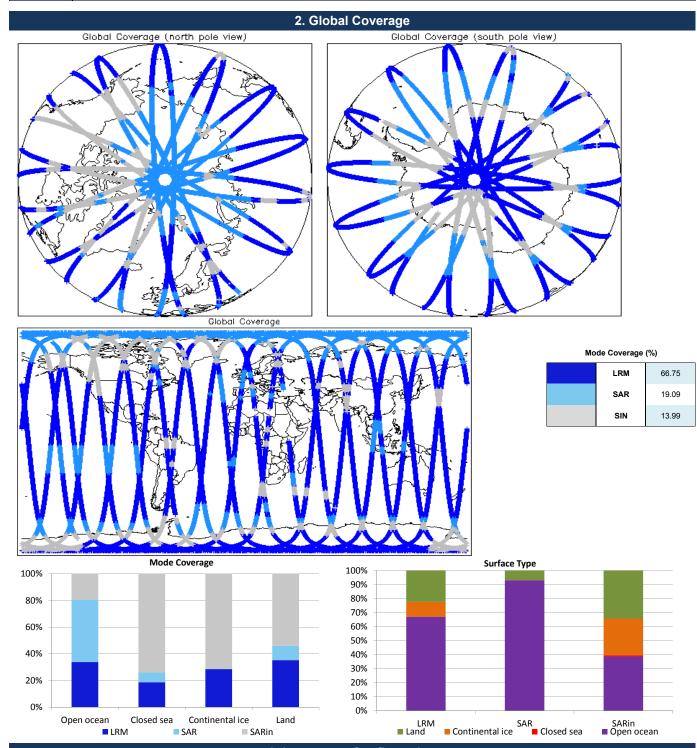
IDEAS Daily Report for OFFLINE data: 14/

<u>14/06/2012</u>



		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:	1te: 04-Dec-2013	Product Format Check	Nominal	
Report Froduction Da	ue. 04-Dec-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	
Measurement Data Set Check See Section 4.5 and 5.5				
Mission / Instrument News				
ISIRAL unavailability from 13-Jun-2012 16:33:57 to 17:30:21 due to an unplanned ground segment anomaly.				
14-Jun-2012 None	None			
	Nothing planned			

1. Overview



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 L1B 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: 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

3

2

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_1B_20120614T055842_20120614T061427_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20120614T115551_20120614T120254_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_1B_20120614T175155_20120614T180636_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_20120614T121721_20120614T121914_B001	TRK echo error	The tracking echo has returned an error
CS_OFFL_SIR_LRM_1B_20120614T164631_20120614T171628_B001	TRK echo error	The tracking echo has returned an error

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 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: 0

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:

CS_OFFL_SIR_GDR_2A_20120614T233719_20120615T011633_B001 CS_OPER_AUX_ORBDOR_20120613T215526_20120615T Coverage missing for intervals [2012-06-002326_0001 15T00:23:26, 2012-06-15T01:16:33]	Product	AUX File	Comment
	CS NEEL SID CDD 2A 201206141233719 201206151011633 B001		J J J J J J J J J J J J J J J J J J J

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

3

1

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220120614T055842_20120614T061427_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220120614T115551_20120614T120254_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220120614T175155_20120614T180636_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:

Product	Test Failed	Description
CS_OFFL_SIR_SAR_2A_20120614T072535_20120614T072647_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.

0

0

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_GDR_2A	18	16	0	16	0
SIR_LRM_1B	120	119	77	42	0
SIR_LRM_2	120	119	2	117	0
SIR_SAR_1B	88	88	0	88	0
SIR_SAR_2A	88	88	4	84	0
SIR_SIN_1B	99	99	0	99	0
SIR_SIN_2	99	99	0	99	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: