

# **IDEAS Daily Report for OFFLINE data:**

<u>12/09/2012</u>



65.12

18.57

16.16

		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:	11-Apr-2013	Product Format Check	Nominal	
		Product Header Analysis	Nominal	
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data File Usage	See Section 5.3	
	Data	Auxiliary Correction Check	See Section 4.4 and 5.4	
		Measurement Data Set Check	See Section 4.5 and 5.5	

1. Overview

### Mission / Instrument News

80%

60%

40%

20%

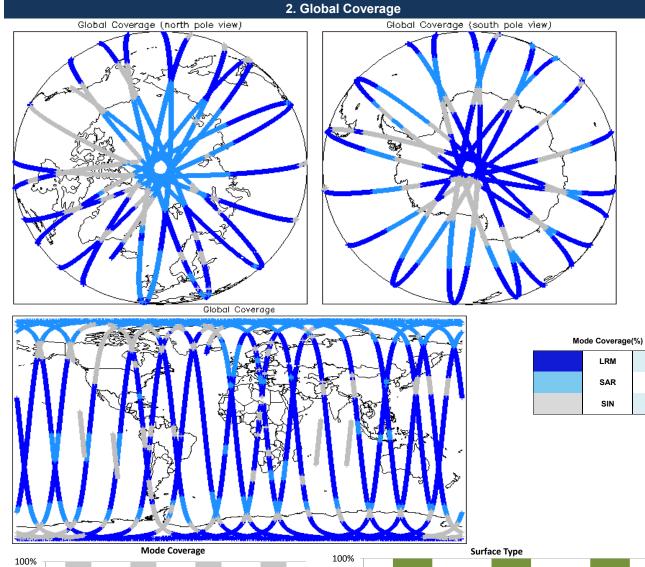
0%

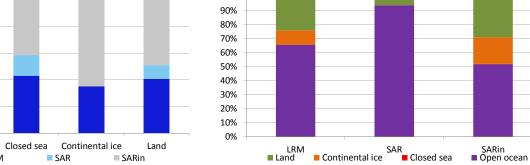
Open ocean

LRM

 
 11-Sep-2012
 SIRAL unavailability from 11-Sept-2012 ~03:04:00 to ~07:02:00 due to a planned rolling orbit manoeuvre.

 12-Sep-2012
 SIRAL unavailability from 12-Sept-2012 ~15:34:00 to ~18:33:00 due to a planned rolling orbit manoeuvre.
 12-Sep-2012 13-Sep-2012 Nothing planned





		3. Instru	ment Configuration					
The SIRAL instrument configuration	for the day of acquisition is provi	ded 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 C	heck							
Each product, retrieved and unpacke	ed from the science server, is che	ecked to ensure it o	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							
		MPH and SPH in C	order to identify any inconsistencies	s and/or errors raised	by the ground-segment processing chain.			
Number of products with errors:	0							
4.3 L1B Auxilary Data Fil	e Usage Check							
Each product is checked for missing	Data Set Descriptors wrt a pre-c	etermined baseline	e and also to check the validity of Au	uxiliary Data Files is c	orrect.			
Number of products with errors:	0							
4.4 L1B Flagged Auxiliar	v Correction Error Ch	eck						
	•							
Each product is checked to spot aux		pround-station proce	essing chain as missing or containir	ng errors				
Number of products with errors:	2							
Product	T055439_20120912T060533_B		Test Failed Dynamic atmosphere correction					
				error				
CS_OFFL_SIR_LRM_1B_20120912	onfidence Data Check		Dynamic atmosphere correction		problems when set			
CS_OFFL_SIR_LRM_1B_20120912 4.5 L1B Measurement Co CryoSat L1B data includes a measu Number of products with errors:	onfidence Data Check		surement record. The bit value of th	nis flag indicates any	problems when set.			
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#### 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.

0

5

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	17	16	0	16	0
SIR_LRM_1B	114	113	82	31	0
SIR_LRM_2	111	111	2	109	0
SIR_SAR_1B	69	68	0	68	0
SIR_SAR_2A	69	68	3	65	0
SIR_SIN_1B	89	89	0	89	0
SIR_SIN_2	89	89	0	89	0

## 6.1 QCC Errors 0

Number of products with QCC errors:

### 6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name CS\_OFFL\_SIR\_GDR\_2A\_20120911T223820\_20120912T001733\_B001 CS\_OFFL\_SIR\_GDR\_2A\_20120912T232643\_20120913T010556\_B001 CS OFFL SIR LRM 1B 20120912T034138 20120912T034144 B001 CS OFFL SIR SAR 1B 20120911T235936 20120912T000105 B001 CS\_OFFL\_SIR\_SAR\_2A\_20120911T235936\_20120912T000105\_B001