

IDEAS Daily Report for OFFLINE data: 20/0

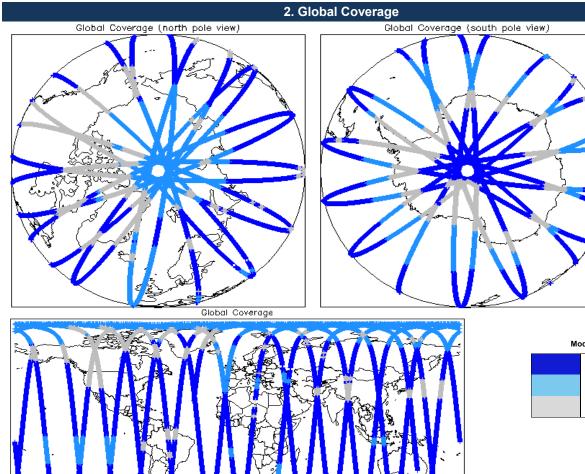
<u>20/09/2012</u>



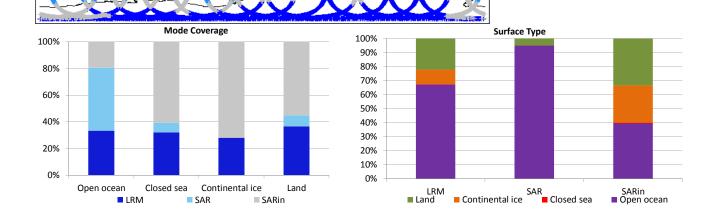
		Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
		Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Report Production Date:	09-Apr-2013	Product Format Check	Nominal	
Report Production Date.		Product Header Analysis	Nominal	
Data Used:	OFFLINE L1B and 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			
19-Sep-2012	None		
20-Sep-2012	SIRAL unavailability from 20-Sept-2012 07:09:18 to 08:54:09 due to a planned orbit manoeuvre.		
21-Sep-2012	Nothing planned		







	3.	Instrument Configuration	l de la constante de
The SIRAL instrument configuration	for the day of acquisition is provided belo)W.	
SIRAL instrument(s) in use:	SIRAL - A		
Star Tracker(s) in use:	Star Tracker 1		
	4. L	evel 1B Data Quality Chec	ck
4.1 L1 Product Format C	Check		
Each product, retrieved and unpack Number of products with errors:	ed from the science server, is checked to 0	ensure it consists of both an XML header file	e (.HDR) and a product file (.DBL).
4.2 L1B Product Header	Analysis		
Number of products with errors:	ned checks are carried out on the MPH at 0	10 SPH in order to identity any inconsistencie	es and/or errors raised by the ground-segment processing chain.
4.3 L1B Auxilary Data Fi	le Usage Check		
Each product is checked for missing	Data Set Descriptors wrt a pre-determine	ed baseline and also to check the validity of A	Auxiliary Data Files is correct
Number of products with errors:	0		
4.4 L1B Flagged Auxilia	ry Correction Error Check		
Each product is checked to spot aux	kiliary corrections flagged by the ground-s	tation processing chain as missing or contain	ning errors
Number of products with errors:	3		
Product		Test Failed	
CS_OFFL_SIR_SAR_1B_20120920 CS_OFFL_SIR_SAR_1B_20120920	DT055546_20120920T060147_B001 DT175910_20120920T180141_B001	Dynamic atmosphere correctio Dynamic atmosphere correctio	
CS_OFFL_SIR_SIN_1B_20120920	T115947_20120920T120102_B001	Dynamic atmosphere correctio	on error
Number of products with errors: Product	4	Test Failed	Description
	0T020004_20120920T020637_B001 0T035732_20120920T041632_B001	TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
	0T202923_20120920T203442_B001	TRK echo error TRK echo error	The tracking echo has returned an error The tracking echo has returned an error
		1	
		Level 2 Data Quality Chec	ĸ
5.1 L2 Product Format C	Check		
		ensure it consists of both an XML header file	e (.HDR) and a binary product file (.DBL)
Number of products with errors:	0		
5.2 L2 Product Header A	Inalysis		
For all products, a series of pre-defi	ned checks are carried out on the MPH a	nd SPH in order to identify any inconsistenci	es and/or errors raised by the ground-segment processing chain
Number of products with errors:	0		
5.3 L2 Auxiliary Data File	e Usage Check		
		ed baseline and also to check the validity of A	Auxiliary Data Files is correct
Number of products with errors:	1		
Product		AUX File	Comment
	0T231655_20120921T005608_B001		9T215525_20120921T Coverage missing for intervals [2012-09- 21T00:23:25, 2012-09-21T00:56:08]
5.4 L2 Flagged Auxiliary	Correction Error Check		
Each product is checked to spot aux	kiliary corrections flagged by the ground-s	tation processing chain as missing or contair	ning errors
Number of products with errors:	3		
Product		Test Failed	
CS_OFFL_SIR_SAR_2A_20120920	0T055546_20120920T060147_B001 0T175910_20120920T180141_B001	Dynamic atmosphere correctio Dynamic atmosphere correctio	
CS_OFFL_SIR_SIN_2201209207		Dynamic atmosphere correctio	

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_20120920T020637_20120920T020829_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	18	17	0	17	0
SIR_LRM_1B	106	102	64	38	0
SIR_LRM_2	105	104	0	104	0
SIR_SAR_1B	70	65	0	65	0
SIR_SAR_2A	70	70	2	68	0
SIR_SIN_1B	87	82	0	82	0
SIR_SIN_2	87	87	0	87	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: 16
Product name
CS_OFFL_SIR_GDR_2A_20120919T222831_20120920T000745_B001
CS_OFFL_SIR_LRM_1B_20120919T235127_20120920T000553_B001
CS_OFFL_SIR_LRM_1B_20120920T131712_20120920T132011_B001
CS_OFFL_SIR_LRM_1B_20120920T181827_20120920T183450_B001
CS_OFFL_SIR_LRM_1B_20120920T230015_20120920T232452_B001
CS_OFFL_SIR_LRM_220120919T235127_20120920T000553_B001
CS_OFFL_SIR_SAR_1B_20120920T141210_20120920T141349_B001
CS_OFFL_SIR_SAR_1B_20120920T152419_20120920T152822_B001
CS_OFFL_SIR_SAR_1B_20120920T170332_20120920T170857_B001
CS_OFFL_SIR_SAR_1B_20120920T175910_20120920T180141_B001
CS_OFFL_SIR_SAR_1B_20120920T183840_20120920T184615_B001
CS_OFFL_SIR_SIN_1B_20120920T053302_20120920T054439_B001
CS_OFFL_SIR_SIN_1B_20120920T085411_20120920T085548_B001
CS_OFFL_SIR_SIN_1B_20120920T085605_20120920T085711_B001
CS_OFFL_SIR_SIN_1B_20120920T165000_20120920T170122_B001
CS_OFFL_SIR_SIN_1B_20120920T171141_20120920T171154_B001

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