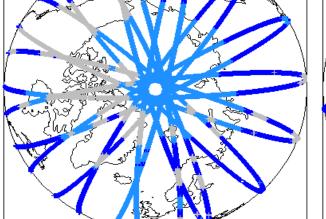


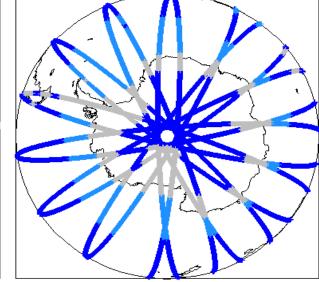
IDEAS Daily Report for OFFLINE data: 14/07/2012

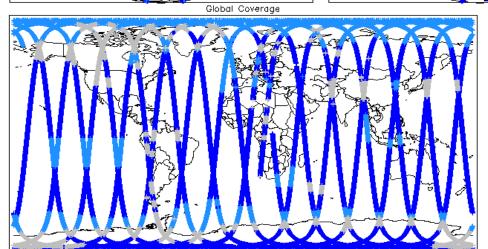
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1. Overview Check Status Server check: science-pds.cryosat.esa.int Nominal Server check: calval-pds.cryosat.esa.int Nominal Product Software Check Nominal Product Format Check Nominal Report Production Date: 05-Jun-2013 Product Header Analysis Nominal OFFLINE L1B and L2 Science Auxiliary Data File Usage See Section 5.3 Data Used: Data Auxiliary Correction Check See Section 4.4 and 5.4 Measurement Data Set Check See Section 4.5 and 5.5



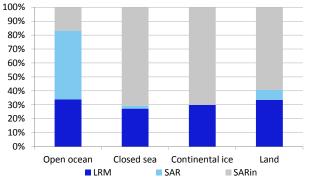


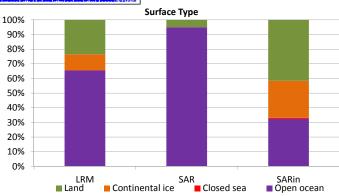




Mode Coverage(%)					
	LRM	65.71			
	SAR	20.59			
	SIN	13.54			







3. Instrument Configuration						
The SIRAL instrument configuration f	for the day of acquisition is provided bel	low.				
SIRAL instrument(s) in use:	SIRAL - A					
Star Tracker(s) in use:	Star Tracker 2					
	4. L	evel 1B	Data Quality Check			
4.1 L1 Product Format Cr	neck					
		o ensure it con	sists of both an XML header file (.HDR)	and a product file (.DBL).		
Number of products with errors:	0					
4.2 L1B Product Header A	Analysis					
For all products, a series of pre-define	ed checks are carried out on the MPH a	and SPH in ord	der to identify any inconsistencies and/or	errors raised by the ground-segment processing chain.		
Number of products with errors:	0					
4.3 L1B Auxilary Data File	e Usage Check					
		ned baseline a	nd also to check the validity of Auxiliary I	Data Files is correct		
Number of products with errors:	0					
-						
4.4 L1B Flagged Auxiliary						
		station proces	sing chain as missing or containing error	s		
Number of products with errors: Product	3		Test Failed			
CS_OFFL_SIR_LRM_1B_20120714			Dynamic atmosphere correction error			
CS_OFFL_SIR_SIN_1B_20120714T CS_OFFL_SIR_SIN_1B_20120714T			Dynamic atmosphere correction error Dynamic atmosphere correction error			
4.5 L1B Measurement Co	nfidence Data Check					
CryoSat L1B data includes a measure Number of products with errors:	ement confidence flag word (field 14) fo 3	or each measu	rement record. The bit value of this flag i	indicates any problems when set.		
Product	5		Test Failed	Description		
CS_OFFL_SIR_LRM_1B_20120714			TRK echo error	The tracking echo has returned an error		
CS_OFFL_SIR_LRM_1B_201207147 CS_OFFL_SIR_SIN_1B_201207147			Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected		
	5.	Level 2 I	Data Quality Check			
5.1 L2 Product Format Ch			,			
		o ensure it con	sists of both an XML header file (.HDR)	and a binary product file (DBI)		
Number of products with errors:	0					
5.2 L2 Product Header Ar	nalvsis					
	, .					
For all products, a series of pre-define	ed checks are carried out on the MPH a	and SPH in ord	der 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 I	Data Set Descriptors wrt a pre-determin	ned baseline a	nd also to check the validity of Auxiliary	Data Files is correct		
Number of products with errors:	1			-		
Product CS_OFFL_SIR_GDR_2A_20120714			PER_AUX_ORBDOR_20120713T21552			
	1200040_201201101000001_0001	00232	5_0001	15T00:23:25, 2012-07-15T00:39:57]		
5.4 L2 Flagged Auxiliary	Correction Error Check					
Each product is checked to spot auxil	liary corrections flagged by the ground-	station proces	sing chain as missing or containing error	S		
Number of products with errors:	3					
Product CS_OFFL_SIR_LRM_2201207147	F115947_20120714T123300 B001		Test Failed Dynamic atmosphere correction error			
CS_OFFL_SIR_SIN_2_20120714T055841_20120714T060044_B001		Dynamic atmosphere correction error				
CS_OFFL_SIR_SIN_2_20120714T	173092_201207141180104_8001		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.

1

0

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_20120714T082606_20120714T082810_B001	4T082810_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	16	14	0	14	0
SIR_LRM_1B	121	120	108	12	0
SIR_LRM_2	121	120	0	120	0
SIR_SAR_1B	84	84	0	84	0
SIR_SAR_2A	84	84	5	79	0
SIR_SIN_1B	104	104	0	104	0
SIR_SIN_2	104	104	0	104	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: 0