

IDEAS Daily Report for OFFLINE data: 02/

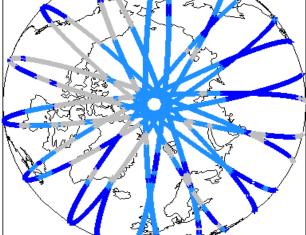
<u>02/05/2013</u>

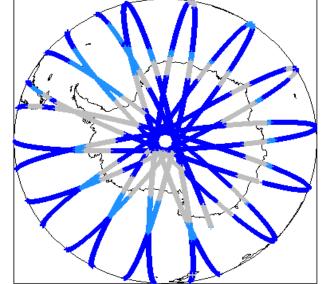


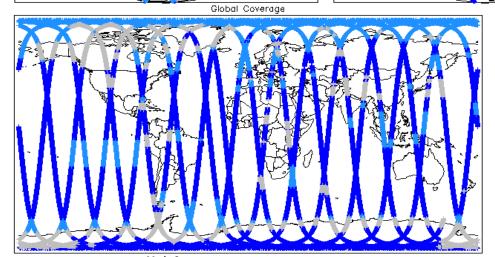
		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Report Production Date:	05-Jun-2013	Product Format Check	Nominal
		Product Header Analysis	Nominal
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data File Usage	See Section 5.3
	Data	Auxiliary Correction Check	See Section 4.5 and 5.4
	•	Measurement Data Set Check	See Section 4.6

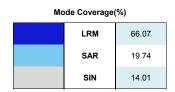
1. Overview

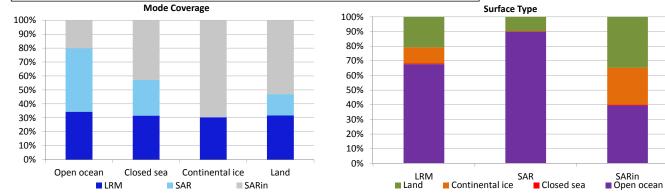
Mission / Instru	ment News					
01-May-2013	None					
02-May-2013	None					
03-May-2013	Nothing planned					
2. Global Coverage						
	Global Coverage (north pole view)	Global Coverage (south pole view)				
	No. 1 m					











3. Instrument Configuration					
The SIRAL instrument configuration	n for the day of acquisition is	provided below.			
SIRAL instrument(s) in use:	SIRAL - A				
Star Tracker(s) in use:	Star Tracker 2 & 3				
		4. Level 1B	Data Quality Check		
4.1 L1B Software Version	on Check				
N.b. There were a number of o version referenced in the produ		he installation of the nev	/ IPF1 Vk2.0, IPF2 Vk1.0. The af	fected L1B pro	ducts, listed below, have the old software
Number of products with errors:	0				
4.2 L1B Product Format	Check				
Each product, retrieved and unpact Number of products with errors:		is checked to ensure it con	sists of both an XML header file (.HDF	R) and a product	file (.DBL).
4.3 L1B Product Header	Analysis				
		on the MPH and SPH in ord	er to identify any inconsistencies and	or errors raised	by the ground-segment processing chain.
Number of products with errors:	0				
4.4 L1B Auxilary Data F	ile Usage Check				
Each product is checked for missin	g Data Set Descriptors wrt a	pre-determined baseline a	nd also to check the validity of Auxiliar	y Data Files is c	orrect.
Number of products with errors:	0				
4.5 L1B Flagged Auxilia	ry Correction Error	Check			
Each product is checked to spot au	uxiliary corrections flagged by	the ground-station process	sing chain as missing or containing er	rors	
Number of products with errors:					
Product			Test Failed		
CS_OFFL_SIR_LRM_1B_2013050	-	-	Dynamic atmosphere correction error		
CS_OFFL_SIR_LRM_1B_20130502T114827_20130502T121343_B001 CS_OFFL_SIR_LRM_1B_20130502T175950_20130502T181114_B001		_	Dynamic atmosphere correction error Dynamic atmosphere correction error		
4.6 L1B Measurement C	onfidence Data Che	eck			
CryoSat L1B data includes a meas	urement confidence flag wor	d (field 14) for each measu	ement record. The bit value of this fla	g indicates any p	problems when set.
Number of products with errors:	2				
Product			Test Failed	Description	
CS_OFFL_SIR_LRM_1B_2013050			Attitude correction missing		as not been corrected
CS_OFFL_SIR_SAR_1B_2013050	2T134303_20130502T13450	D6_B001	Attitude correction missing	The attitude h	has not been corrected
		5. Level 2 [Data Quality Check		
5.2 L2 Product Header A	Analysis				
For all products, a series of pre-def	fined checks are carried out (on the MPH and SPH in ord	er to identify any inconsistencies and	or errors raised	by the ground-segment processing chain
Number of products with errors:					by the ground beginning proceeding ondim
5 2 L 2 Auxiliany Data Eil	a Usaga Chack				
5.3 L2 Auxiliary Data Fil	-	are determined becaling a	ad also to aboat the validity of Auvilian	v Data Filas is s	orroot
		pro-ueterminen baseline al	nd also to check the validity of Auxiliar	y Data Files IS C	
Number of products with errors: Product	2	AUX F	ile		Comment
CS_OFFL_SIR_GDR_2A_2013050	D1T225202 20130502T0031	16 B001 CS_OF	PER_AUX_ORBDOR_20130430T215	525_20130502T	Coverage missing for intervals [2013-05-
CS_OFFL_SIR_GDR_2A_2013050		- 002323 39 B001 CS_OF	_ PER_AUX_ORBDOR_20130501T215	525_20130503T	02T00:23:25, 2013-05-02T00:31:16] Coverage missing for intervals [2013-05-
		002325	5_0002		03T00:23:25, 2013-05-03T01:19:39]

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

0

3

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220130502T055953_20130502T060031_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130502T114827_20130502T121343_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130502T175950_20130502T181114_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_220130501T235926_20130502T000123_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:

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	143	143	109	34	0
SIR_LRM_2	143	143	1	142	0
SIR_SAR_1B	147	147	0	147	0
SIR_SAR_2A	101	101	2	99	0
SIR_SIN_1B	106	105	0	105	0
SIR_SIN_2	102	101	0	101	0

6.1 QCC Errors

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_20130501T225202_20130502T003116_B001 CS_OFFL_SIR_SIN_1B_20130501T235926_20130502T000123_B001 CS_OFFL_SIR_SIN_2__20130501T235926_20130502T000123_B001