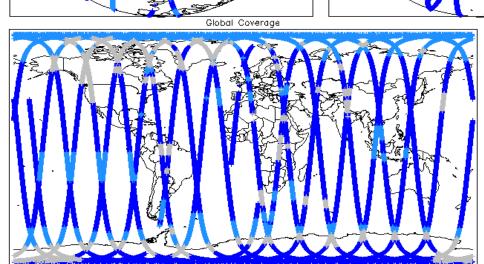


IDEAS Daily Report for OFFLINE data: 15/0

<u>15/07/2012</u>

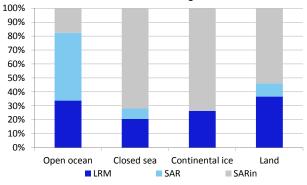


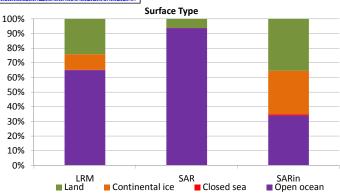
		1. Overview	
		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
eport Production Dat	e: 05-Jun-2013	Product Format Check	Nominal
report Production Da	a: 05-Jun-2013	Product Header Analysis	Nominal
Data Used:	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
Globa	Coverage (north pole view)	2. Global Coverage Global Coverage (south	pole view)
And A			



Mode Coverage(%)						
	LRM	68.01				
	SAR	19.11				
	SIN	12.72				







	3. lı	nstrument Configuration						
The SIRAL instrument configuration	on for the day of acquisition is provided below							
SIRAL instrument(s) in use:	SIRAL - A							
Star Tracker(s) in use:	Star Tracker 2							
	4. Le	vel 1B Data Quality Check						
4.1 L1 Product Format	Check							
		nsure it consists of both an XML header file (.	HDR) and a product file (.DBL).					
Number of products with errors								
4.2 L1B Product Heade	r Analysis							
For all products, a series of pre-de	fined 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							
4.3 L1B Auxilary Data F	ile Usage Check							
Each product is checked for missi	ng Data Set Descriptors wrt a pre-determined	baseline and also to check the validity of Au	xiliary Data Files is correct.					
Number of products with errors	: 0							
4.4 L1B Flagged Auxilia	ary Correction Error Check							
Each product is checked to spot a	uxiliary corrections flagged by the ground-sta	tion processing chain as missing or containing	g errors					
Number of products with errors	: 3							
Product		Test Failed						
	15T055951_20120715T060410_B001	Dynamic atmosphere correction e						
	15T115906_20120715T120059_B001 15T175703_20120715T180356_B001	Dynamic atmosphere correction e						
4.5 L1B Measurement (Confidence Data Check							
		ach measurement record. The bit value of thi	s flag indicates any problems when set.					
Number of products with errors	: 4	Test Failed	Description					
Product CS_OFFL_SIR_LRM_1B_201207	15T061320_20120715T061954_B001	TRK echo error	The tracking echo has returned an error					
CS_OFFL_SIR_LRM_1B_201207	15T075028_20120715T080712_B001	TRK echo error	The tracking echo has returned an error					
	15T122628_20120715T122843_B001 15T122437_20120715T122628_B001	Attitude correction missing Attitude correction missing						
C3_0FFL_3IK_3AK_1B_201207			The attitude has not been conected					
	5. Le	evel 2 Data Quality Check						
5.1 L2 Product Format	Check							
		nsure it consists of both an XML header file (.	HDR) and a binary product file (.DBL)					
Number of products with errors	: 0							
5.2 L2 Product Header	Analysis							
For all products, a series of pre-de	fined 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								
5.3 L2 Auxiliary Data Fi	le Usage Check							
		I baseline and also to check the validity of Au	xiliary Data Files is correct					
Number of products with errors	: 1							
Product		AUX File	Comment					
CS_OFFL_SIR_GDR_2A_201207	15T234907_20120716T012820_B001	CS_OPER_AUX_ORBDOR_20120714T 002325_0001	215525_20120716T Coverage missing for intervals [2012-07- 16T00:23:25, 2012-07-16T01:28:20]					
5.4 L2 Flagged Auxiliar	y Correction Error Check							
		tion processing chain as missing or containin	a errors					
Number of products with errors			~					
Product		Test Failed						
CS_OFFL_SIR_SAR_2A_201207	15T055951_20120715T060410_B001	Dynamic atmosphere correction e	error					
	CS_OFFL_SIR_SAR_2A_20120715T115906_20120715T120059_B001 Dynamic atmosphere correction error							
00_011 E_011_0A11_2A_201207	S_OFFL_SIR_SAR_2A_20120715T175703_20120715T180356_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.

0

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:

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	20	19	0	19	0
SIR_LRM_1B	113	113	99	14	0
SIR_LRM_2	109	111	1	110	0
SIR_SAR_1B	85	85	0	85	0
SIR_SAR_2A	85	85	6	79	0
SIR_SIN_1B	92	91	0	91	0
SIR_SIN_2	92	91	0	91	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports: