

# IDEAS Daily Report for 01-Jan-2013



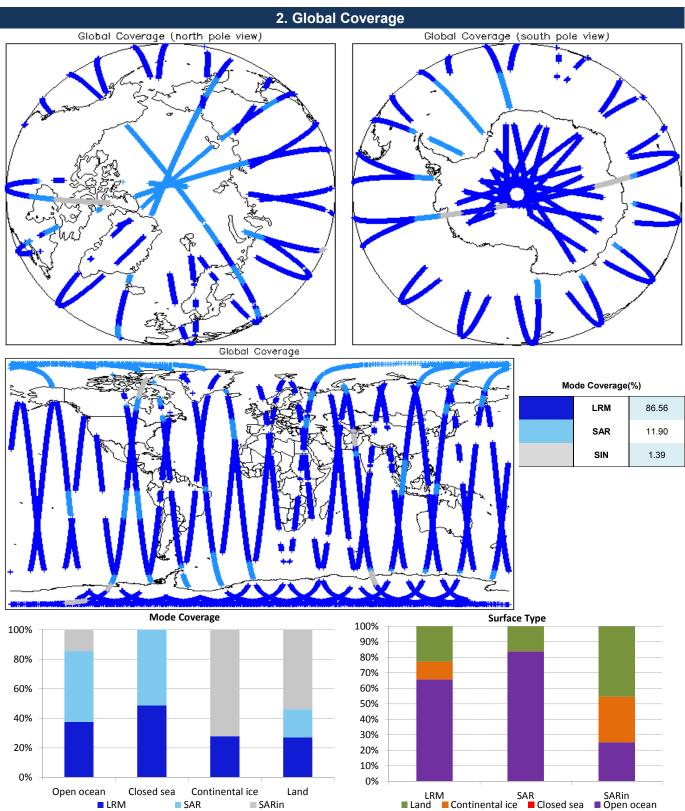


		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Report Production Date:	20-Feb-2013	Product Format Check	Nominal
		Product Header Analysis	Nominal
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data 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
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#### Mission / Instrument News Unplanned Ground Segment Anomaly from 31-Dec-2012 00:00:21 to 31-Dec-2012 15:53:13 31-Dec-2012

01-Jan-2013 Unplanned Ground Segment Anomaly from 31-Dec-2012 17:23:20 to 01-Jan-2013 22:26:41

Unplanned Ground Segment Anomaly from 02-Jan-2013 00:06:23 to 02-Jan-2013 04:08:12 02-Jan-2013



3. Instrument Configuration								
The SIRAL instrument configurati	ion for the day of acquisition is provide	ed below.						
SIRAL instrument(s) in use:	SIRAL - A							
Star Tracker(s) in use:	Star Tracker 1							
	4. Lev	vel 1B D	ata	Quality Check				
4.1 L1 Product Format Check								
Each product, retrieved and unpa	icked from the science server, is chec	ked to ensure	it con	sists of both an XML header file (.HI	DR) and a product file (.DBL).			
Number of products with errors: 0								
4.2 L1B Product Heade	er Analysis							
For all products, a series of pre-d processing chain.	efined checks are carried out on the N	IPH and SPH	l in ord	ler to identify any inconsistencies an	d/or errors raised by the ground-segment			
Number of products with errors	<b>s:</b> 0							
4.3 L1B Auxilary Data I	File Usage Check							
Each product is checked for miss	ing Data Set Descriptors wrt a pre-de	ermined base	eline a	nd also to check the validity of Auxili	iary Data Files is correct.			
Number of products with errors	<b>s:</b> 0							
4.4 L1B Flagged Auxili	ary Correction Error Chec	k						
Each product is checked to spot a	auxiliary corrections flagged by the gro	ound-station p	roces	sing chain as missing or containing e	errors			
Number of products with errors	<b>s:</b> 2							
Product CS_OFFL_SIR_LBM_1B_20130	101T174320_20130101T180559_B00	1		Test Failed Dynamic atmosphere correction error				
	101T055954_20130101T060203_B00			Dynamic atmosphere correction err				
4.5 L1B Measurement	Confidence Data Check							
CryoSat I 1B data includes a mea	asurement confidence flag word (field	14) for each r	neasu	rement record. The hit value of this f	lan indicates any problems when set			
Number of products with errors			neuoui					
	5. Le	vel 2 Da	nta (	Quality Check				
5.1 L2 Product Format								
	icked from the science server, is chec	ked to ensure	it con	sists of both an XML beader file ( HI	DR) and a binary product file ( DBI )			
Number of products with errors								
5.2 L2 Product Header Analysis								
For all products, a series of pre-d processing chain	efined checks are carried out on the N	IPH and SPH	in ord	ler to identify any inconsistencies an	d/or errors raised by the ground-segment			
Number of products with errors:     0								
5.3 L2 Auxiliary Data File Usage Check								
Each product is checked for miss	ing Data Set Descriptors wrt a pre-de	ermined base	eline a	nd also to check the validity of Auxili	iary Data Files is correct			
Number of products with errors	s: 2							
Product					Comment			
CS_OFFL_SIR_GDR_2A_20121	231T225111_20130101T003025_B00	1			01T00:23:25, 2013-01-01T00:30:25]			
CS_OFFL_SIR_GDR_2A_20130	101T233934_20130102T011848_B00		CS_OPER_AUX_ORBDOR_20121231T2         Coverage missing for intervals [2013-01- 15525_20130102T002325_0001           02T00:23:25, 2013-01-02T01:18:48]					
5.4 L2 Flagged Auxilia	ry Correction Error Check							
Each product is checked to spot auxiliary corrections flagged by the ground-station processing chain as missing or containing errors								
Number of products with errors: 2								
			Test Failed					
CS_OFFL_SIR_LRM_220130101T174320_20130101T180559_B001 CS_OFFL_SIR_SAR_2A_20130101T055954_20130101T060203_B001		Dynamic atmosphere correction error Dynamic atmosphere correction error						

luct	Test Failed
OFFL_SIR_LRM_220130101T174320_20130101T180559_B001	Dynamic atmosphere correction error
OFFL_SIR_SAR_2A_20130101T055954_20130101T060203_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

1

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	10	9	0	9	0
SIR_LRM_1B	151	151	112	39	0
SIR_LRM_2	151	151	0	151	0
SIR_SAR_1B	61	61	0	61	0
SIR_SAR_2A	43	43	1	42	0
SIR_SIN_1B	6	6	0	6	0
SIR_SIN_2	6	6	0	6	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\_20121231T225111\_20130101T003025\_B001