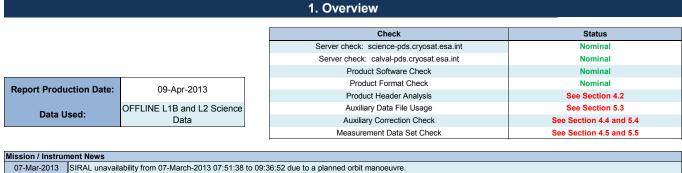


IDEAS Daily Report for OFFLINE data:

08/03/2013

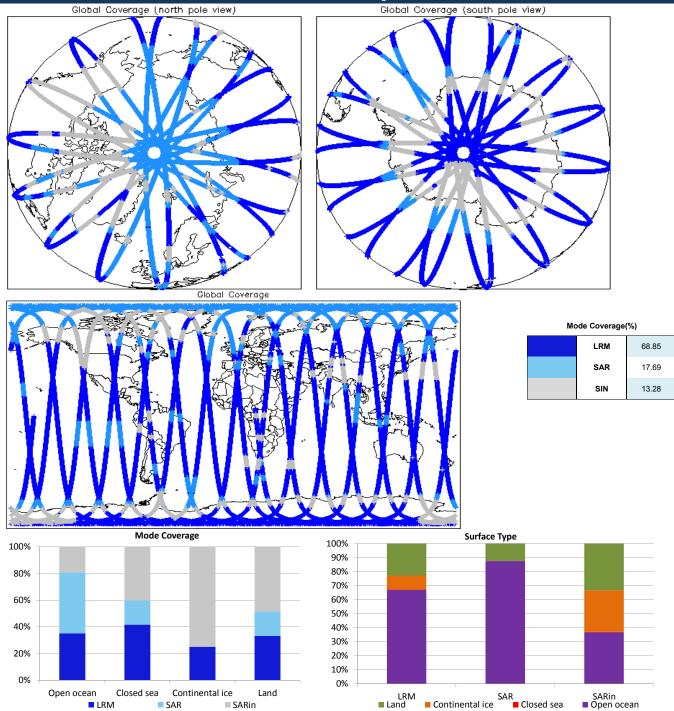




08-Mar-2013 None

09-Mar-2013 Nothing planned

2. Global Coverage



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A	
Star Tracker(s) in use:	Star Tracker 1 & 2	

4. Level 1B Data Quality Check

4.1 L1 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL).

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined 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:

Product	Test Failed	
CS_OFFL_SIR_SAR_1B_20130308T043739_20130308T043739_B001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.	

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

4.4 L1B 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

4

Number of products with errors: 4 Product Test Failed CS_OFFL_SIR_LRM_1B_20130307T234314_20130308T01802_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_1B_20130308T054721_20130308T060018_B001 Dynamic atmosphere correction error CS_OFFL_SIR_LRM_1B_20130308T175812_20130308T181243_B001 Dynamic atmosphere correction error CS_OFFL_SIR_SIN_1B_20130308T115929_20130308T120239_B001 Dynamic atmosphere correction error

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20130308T035329_20130308T040553_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_LRM_1B_20130308T235337_20130308T235714_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SAR_1B_20130308T040553_20130308T040728_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_SIN_1B_20130308T235714_20130308T235819_B001	Attitude correction missing	The attitude has not been corrected

5. Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure 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-defined 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 File Usage Check

Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct

Number of products with errors:

Product	AUX File	Comment
CS_OFFL_SIR_GDR_ZA_201303071230936_201303081004850_B001	CS_OPER_AUX_ORBDOR_20130306T215525_20130308T 002325_0001	Coverage missing for intervals [2013-03- 08T00:23:25, 2013-03-08T00:48:50]
CS OFFE SIR GOR 2A 201303081235800 201303091013713 B001	CS_OPER_AUX_ORBDOR_20130307T215525_20130309T 002325_0001	Coverage missing for intervals [2013-03- 09T00:23:25, 2013-03-09T01:37:13]

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

4

2

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_LRM_220130307T234314_20130308T001802_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130308T054721_20130308T060018_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_LRM_220130308T175812_20130308T181243_B001	Dynamic atmosphere correction error
CS_OFFL_SIR_SIN_220130308T115929_20130308T120239_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	19	17	0	17	0
SIR_LRM_1B	140	139	139	0	0
SIR_LRM_2	138	137	0	137	0
SIR_SAR_1B	149	149	0	149	0
SIR_SAR_2A	102	102	6	96	0
SIR_SIN_1B	100	100	0	100	0
SIR_SIN_2	96	96	0	96	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_20130307T230936_20130308T004850_B001 CS_OFFL_SIR_LRM_1B_20130307T234314_20130308T001802_B001

0

3

CS_OFFL_SIR_LRM_2__20130307T234314_20130308T001802_B001