

IDEAS+ Daily Report for NRT data:

14/03/2015

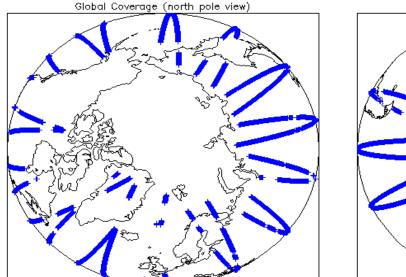
Report Production Date:	20-Mar-2015	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
		Product Format Check	Nominal
		Product Header Analysis	Nominal
		Auxiliary Data File Usage	Nominal
		Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6, 6.7 and 6.8

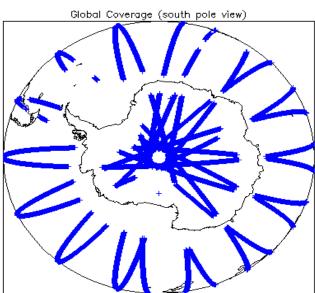
Overview

13-Mar-2015	None
14-Mar-2015	None
15-Mar-2015	Nothing planned

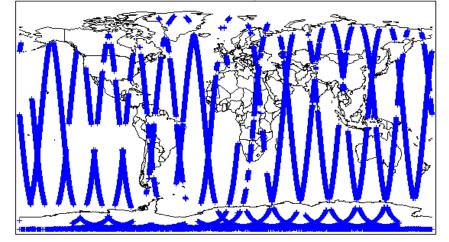
Global Coverage

2. Global Coverage





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 Calibration Data Quality Check

4.1 L1 CAL 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:

4.2 L1 CAL 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 processing chain.

0

4.3 L1 CAL Auxiliary Data File Usage C	Check		
Each product is checked for missing Data Set Descriptor	s wrt a pre-determined bas	seline and also to check the validity of Auxi	liary Data Files is correct.
Number of products with errors:	0		
4.4 L1 CAL Measurement Confidence	Flags		
CryoSat Cal1 and Cal2 data includes a measurement cor	nfidence flag word (field 11) for each measurement record. The bit va	lue of this flag indicates any problems when set.
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	5 1 0 101	1B FDM Data Quality Ch	bock
	5. Levei		
5.1 L1B FDM Product Format Check			
Each product, retrieved and unpacked from the science s		re it consists of both an XML header file (.H	IDR) and a binary product file (.DBL).
Number of products with errors:	0		
5.2 L1B FDM Product Header Analysis	;		
For all products, a series of pre-defined checks are carrie	ed out on the MPH and SP	H in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Number of products with errors:	0		
5.3 L1B FDM Auxilary Data File Usage	Check		
Each product is checked for missing Data Set Descriptors		seline and also to check the validity of Auxi	liary Data Files is correct.
	0		
5.4.4.0 EDM On we offer a Farmer Flags			
5.4 L1B FDM Correction Error Flags			
Each product is checked to detect auxiliary corrections fla		n processing chain as missing or containin	ig errors.
Number of products with errors:	0		
5.5 L1B FDM Measurement Confidence	e Flags		
CryoSat L1B data includes a measurement confidence fla	ag word (field 14) for each	measurement record. The bit value of this	flag indicates any problems when set.
Number of products with errors:	4		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150314T091431_20150314		Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150314T105107_20150314 CS_OFFL_SIR_FDM_1B_20150314T133900_20150314		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150314T144655_20150314		Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
	6. Leve	I 2 FDM Data Quality Cho	eck
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the science s	erver, is checked to ensur	re it consists of both an XML header file (.H	IDR) and a binary product file (.DBL)
Number of products with errors:	0		
6.2 L2 FDM Product Header Analysis			
For all products, a series of pre-defined checks are carrie	d out on the MPH and SP	H in order to identify any inconsistencies a	nd/or errors raised by the processing chain.
Currently there is a high number of processing error flags	set within the Level 2 FD!	M products (Product_Err and L2_Proc_Flag	g). These flags are set within L2 Header files (MPH field #19 and SPH field
#29) and also within the L2 Product files (MPH field #35 a Data Set Records free of processing errors is below the r			or is detected during the L2 processing and also when the percentage of to 5%).
This issue is under investigation.			
Number of products with errors:	0		
6.3 L2 FDM Auxiliary Data File Usage (Check		
Each product is checked for missing Data Set Descriptors		seline and also to check the validity of Auvi	liany Data Files is correct
	0		
6.4 L2 FDM Correction Error Flags			
Each product is checked to detect auxiliary corrections fla		n processing chain as missing or containin	ig errors.
Number of products with errors:	0		
6.5 L2 FDM Measurement Confidence	Flags		
CryoSat L2 data includes a quality flag word (field 8) for e	ach 20-Hz measurement r	record. The bit value of this flag is an asses	ssment of the measurement quality by the processing chain.
Number of products with errors:	4		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_220150314T091431_20150314T		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150314T105107_20150314 CS_OFFL_SIR_FDM_220150314T133900_20150314		Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
CS_OFFL_SIR_FDM_220150314T144655_20150314		Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
		9	1

6.6 L2 FDM Range Measurement Flags

Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150314T020518_20150314T023514_B001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.
CS_OFFL_SIR_FDM_220150314T104136_20150314T104824_B001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.
CS_OFFL_SIR_FDM_220150314T105819_20150314T105907_B001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.
CS_OFFL_SIR_FDM_220150314T143310_20150314T144411_B001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.
CS_OFFL_SIR_FDM_220150314T231830_20150314T232137_B001	OCOG Retracked Range Flag	The master fail flag is set by the OCOG call, for one or more records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records.

6.7 L2 FDM SWH and Backscatter Measurement Flags

Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors.

Number of	products with error	ors:	1

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150314T125130_20150314T131946_B001	OCOG Backscatter Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #47, #48, #49 and #50 should be ignored for these records.

6.8 L2 FDM Geophysical Measurement Flags

Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.

0

All

Number of products with errors: 10		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150314T020518_20150314T023514_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T040200_20150314T041130_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T043419_20150314T043607_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T104136_20150314T104824_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T105819_20150314T105907_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T143310_20150314T144411_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T152245_20150314T153508_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T185338_20150314T190310_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T194151_20150314T200234_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
CS_OFFL_SIR_FDM_220150314T231830_20150314T232137_B001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.

7. 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.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_FDM_1B	169	0	0	0	0
SIR_FDM_2	165	0	0	0	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: