

# IDEAS+ Daily Report for NRT data:

# 4

<u>22/12/2014</u>		IDEAS+
	Status	

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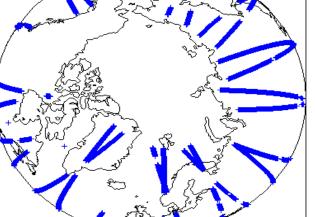
Report Production Date: 02-Jan-2015		Check	Status
Report Froduction Date.	02-Jan-2015	Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal
	(FDM), and CAL Data	Product Software Check	Nominal
		Product Format 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 and 6.8

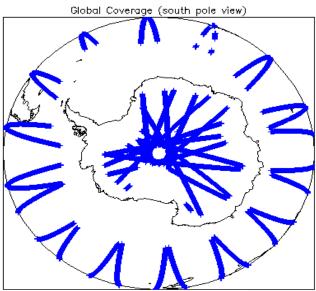
2. Global Coverage

1. Overview

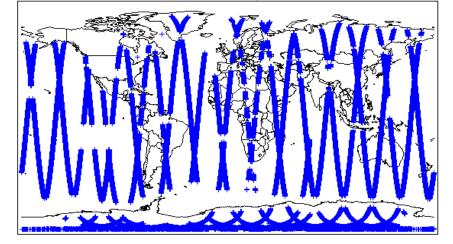
22-Dec-2014	None
23-Dec-2014	Nothing planned

Global Coverage (north pole view)





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

## 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.

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4.3 L1 CAL 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: 0						
4.4 L1 CAL Measurement Confidence Flags						
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11	) for each measurement record. The bit val	ue of this flag indicates any problems when set.				
Number of products with errors: 0						
5. Level	1B FDM Data Quality Ch	eck				
5.1 L1B FDM Product Format Check						
	a it consists of both on VML booder file ( H	DR) and a bigger product file ( DRI )				
Number of products with errors: 0	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 L1B FDM Product Header Analysis						
For all products, a series of pre-defined checks are carried out on the MPH and SPI	H in order to identify any inconsistencies ar	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 wrt a pre-determined bas	eline and also to check the validity of Auxil	iary Data Files is correct.				
Number of products with errors: 0		·				
5.4 L1B Correction Error Flags						
Each product is checked to detect auxiliary corrections flagged by the ground-station	n processing chain as missing or containing	g errors.				
Number of products with errors: 0						
5.5 L1B FDM Measurement Confidence Flags						
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: 4						
Product	Test Failed	Description				
CS_OFFL_SIR_FDM_1B_20141222T123153_20141222T123518_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20141222T141124_20141222T141221_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20141222T155055_20141222T155118_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20141222T191429_20141222T191630_B001	Attitude correction missing	The attitude has not been corrected				
6. Leve	I 2 FDM Data Quality Che	eck				
6.1 L2 FDM Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to ensur	e it consists of both an XML header file (.H	DR) 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 carried out on the MPH and SPI	H in order to identify any inconsistencies ar	nd/or errors raised by the processing chain.				
Currently there is a high number of processing error flags set within the Level 2 FDM #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They a Data Set Records free of processing errors is below the minimum acceptable thresh	re set by the FDM processor when an erro	r is detected during the L2 processing and also when the percentage of				
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 wrt a pre-determined bas	eline and also to check the validity of Auxil	ary Data Files is correct.				
Number of products with errors: 0						
6.4 L2 FDM Correction Error Flags						
Each product is checked to detect auxiliary corrections flagged by the ground-station	n processing chain as missing or containing	g 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 each 20-Hz measurement r	ecord. The bit value of this flag is an asses	sment of the measurement quality by the processing chain.				
Number of products with errors: 4						
Product Test Failed Description						
CS_OFFL_SIR_FDM_220141222T123153_20141222T123518_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_220141222T141124_20141222T141221_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_220141222T155055_20141222T155118_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_220141222T191429_20141222T191630_B001	Attitude correction missing	The attitude has not been corrected				

#### 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.

Number of products with errors:	3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141222T002618_20141222T003730_B001	0 0	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_220141222T125802_20141222T130952_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_220141222T155501_20141222T155735_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.
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### 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 errors: 0

# 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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20141222T002618_20141222T003730_B001		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_2_20141222T040944_20141222T041920_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_2_20141222T085924_20141222T091523_B001		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_2_20141222T094450_20141222T094722_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_220141222T102240_20141222T104521_B001		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_2_20141222T125802_20141222T130952_B001		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_2_20141222T143133_20141222T150503_B001		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_2_20141222T155501_20141222T155735_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_220141222T222055_20141222T222903_B001		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	161	0	0	0	0
SIR_FDM_2	161	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with errors:		)			
7.2 Missing QCC Reports					
Number of products with missing Q0	CC reports: A	I			