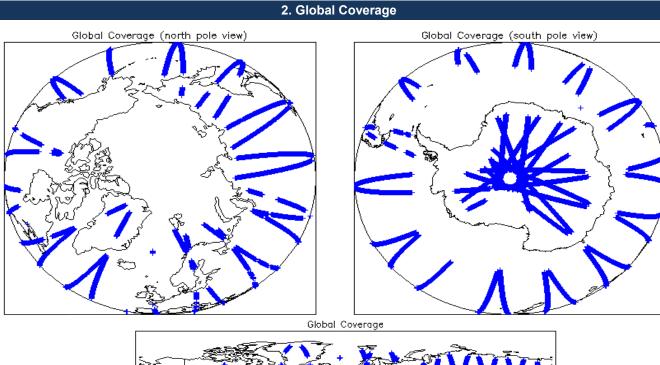


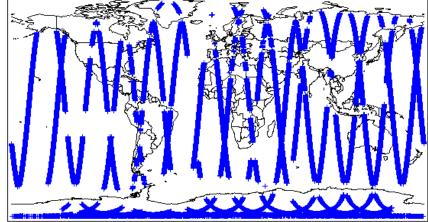
## IDEAS+ Daily Report for NRT data:

## <u>27/12/2014</u>

1. Overview				
Demont Draduction Date:	05-Jan-2015	Check	Status	
Report Production Date:		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 and 6.8	

Missic	Mission / Instrument News		
26-D	Dec-2014	None	
27-D	Dec-2014	None	
28-D	Dec-2014	Nothing planned	





### 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 Check				
Each product is checked for missing Data Set Descriptors wrt a pre-determined b	aseline 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 1	11) for each measurement record. The	bit value of this flag indicates any problems when set.		
Number of products with errors: 0				
5. Leve	I 1B FDM Data Quality	Check		
5.1 L1B FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML beader f	ile ( HDR) and a binary product file ( DRI )		
Number of products with errors: 0				
5.2 L 1P EDM Product Header Applysic				
5.2 L1B FDM Product Header Analysis				
For all products, a series of pre-defined checks are carried out on the MPH and S Number of products with errors: 0	PH in order to identify any inconsistence	ses and/or errors raised by the ground-segment processing chain.		
5.3 L1B FDM Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors wrt a pre-determined b	aseline and also to check the validity of	Auxiliary 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-stat	ion processing chain as missing or con	taining 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 eac	h measurement record. The bit value o	f this flag indicates any problems when set.		
Number of products with errors: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_1B_20141227T114010_20141227T114057_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141227T145401_20141227T145525_B001	Autode concellon missing			
6. Lev	el 2 FDM Data Quality	Check		
6.1 L2 FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header f	ile (.HDR) 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 S	PH in order to identify any inconsistenc	ies and/or errors raised by the processing chain.		
Currently there is a high number of processing error flags set within the Level 2 FDM products (Products (Product, Flag). These flags are set within L2 Header files (MPH field #19 and SPH field #29) and also within the L2 Proc_Flag). These flags are set within L2 Header files (MPH field #33). They are set by the FDM processor when an error is detected during the L2 processing and also when the percentage of Data Set Records free of processing errors is below the minimum acceptable threshold set within the processor (currently set 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 wrt a pre-determined baseline and also to check the validity of Auxiliary 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 processing chain as missing or containing 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 record. The bit value of this flag is an assessment of the measurement quality by the processing chain.				
Number of products with errors: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220141227T114010_20141227T114057_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220141227T145401_20141227T145525_B001	Attitude correction missing	The attitude has not been corrected		
6.6 L2 FDM Range Measurement Flags				
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Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors.

Number of products with errors: 0

#### 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:

# 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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141227T060823_20141227T063903_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_220141227T080445_20141227T081410_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_220141227T165353_20141227T172738_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_220141227T212511_20141227T212901_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	157	0	0	0	0	
SIR_FDM_2	152	0	0	0	0	
7.1 QCC Errors						
Number of QCC reports with er	rors: (	)				
7.2 Missing QCC Reports						
Number of products with missi	ng QCC reports: A	I				