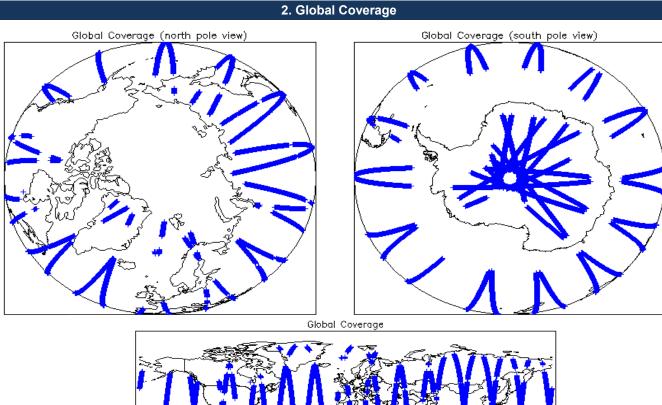


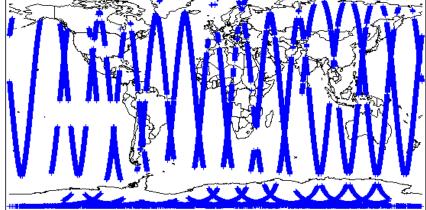
# IDEAS+ Daily Report for NRT data:

# <u>17/12/2014</u>

Report Production Date:	18-Dec-2014	Check	Status
		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
Data Used:	(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, 6.7 and 6.8

Mission / Instru	ment News
16-Dec-2014	None
17-Dec-2014	None
18-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

# 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 Che	eck		
Each product is checked for missing Data Set Descriptors wr	t a pre-determined bas	eline and also to check the validity of Auxil	iary Data Files is correct.
Number of products with errors: 0			
4.4 L1 CAL Measurement Confidence Fla	igs		
CryoSat Cal1 and Cal2 data includes a measurement confide	ence flag word (field 11	) for each measurement record. The bit val	lue 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			
Each product, retrieved and unpacked from the science serve	or is checked to onsur	a it consists of both an YML beader file ( H	IDP) and a binary product file ( DPL )
Number of products with errors: 0			
5.2 L1B FDM Product Header Analysis			
For all products, a series of pre-defined checks are carried or Number of products with errors: 0	ut on the MPH and SP	H in order to identify any inconsistencies ar	nd/or errors raised by the ground-segment processing chain.
Number of products with errors.			
5.3 L1B FDM Auxilary Data File Usage Ch	neck		
Each product is checked for missing Data Set Descriptors wr	t 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 flagge	ed by the ground-statio	n processing chain as missing or containing	g errors.
Number of products with errors: 0			
5.5 L1B FDM Measurement Confidence F	lags		
CryoSat L1B data includes a measurement confidence flag w	vord (field 14) for each	measurement record. The bit value of this t	flag indicates any problems when set.
Number of products with errors: 4			
Product		Test Failed	Description
CS_OFFL_SIR_FDM_1B_20141217T132431_20141217T13	2655_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20141217T132742_20141217T13		Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141217T150616_20141217T15 CS_OFFL_SIR_FDM_1B_20141217T175639_20141217T18		Attitude correction missing Attitude correction missing	The attitude has not been corrected 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 served	er, is checked to ensur	e 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 carried or	ut on the MPH and SP	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 FDN	A products (Product_Err and L2_Proc_Flag	). 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 and Data Set Records free of processing errors is below the mining the mining the set of the set			r 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 Ch	eck		
Each product is checked for missing Data Set Descriptors wr		eline and also to check the validity of Auxil	iarv Data Files is correct.
Number of products with errors: 0	·		
6.4 L2 FDM Correction Error Flags			
	ad builte around statis		
Each product is checked to detect auxiliary corrections flagge Number of products with errors: 0	ed by the ground-statio	n processing chain as missing or containing	g errors.
6.5 L2 FDM Measurement Confidence Fla	<b>-</b>		
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	ssment of the measurement quality by the processing chain.
Number of products with errors: 4			
Product CS_OFFL_SIR_FDM_220141217T132431_20141217T13	2655 B001		Description The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220141217T132431_20141217T13 CS_OFFL_SIR_FDM_220141217T132742_20141217T13		Attitude correction missing	The actitude has not been corrected
CS_OFFL_SIR_FDM_220141217T150616_20141217T150		-	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141217T175639_20141217T18	2943_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: 2					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220141217T165229_20141217T165243_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_220141217T222220_20141217T223734_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 errors: 1		
Product Te	Test Failed	Description
CS_OFFL_SIR_FDM_220141217T195137_20141217T200834_B001	DCOG 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

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141217T021822_20141217T023645_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_220141217T125734_20141217T132427_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_220141217T165229_20141217T165243_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_220141217T202714_20141217T203930_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_220141217T222220_20141217T223734_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_220141217T230840_20141217T231804_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	171	0	0	0	0
SIR_FDM_2	170	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: