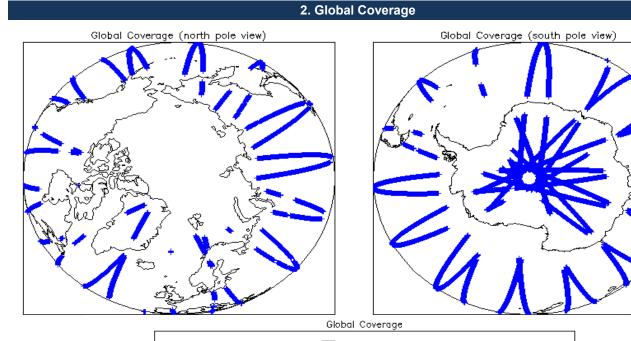


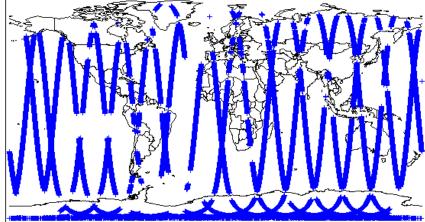
# IDEAS+ Daily Report for NRT data:

## <u>23/02/2015</u>

Report Production Date:	24-Feb-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
Data Useu.		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

Wission / Instru	iment News
22-Feb-2015	None
23-Feb-2015	None
24-Feb-2015	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 bar Number of products with errors: 0	seline and also to check the validity of Auxi	liary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11 Number of products with errors: 0	I) for each measurement record. The bit va	lue of this flag indicates any problems when set.
5. Level	1B FDM Data Quality Ch	leck
5.1 L1B FDM Product Format Check		
	en ik en einke of heath on XAAL hearden fils ( )	
Each product, retrieved and unpacked from the science server, is checked to ensu Number of products with errors: 0	Te it consists of both an XML header file (.r	DR) and a binary product life (.DBL).
5.2 L1B FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and SP Number of products with errors: 0	PH in order to identify any inconsistencies a	nd/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 ba	seline and also to check the validity of Auxi	liary Data Files is correct.
Number of products with errors: 0		
5.4 L1B FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-static Number of products with errors: 0	on processing chain as missing or containir	g errors.
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	flao indicates any problems when set.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150223T072944_20150223T073858_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150223T085003_20150223T085048_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150223T120400_20150223T120522_B001	Attitude correction missing	The attitude has not been corrected
6. Leve	el 2 FDM Data Quality Ch	eck
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	re it consists of both an XML beader file ( F	IDR) and a binary product file (DBI)
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 SF	PH 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 #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 three	are set by the FDM processor when an error	or 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 base. Number of products with errors: 0	seline and also to check the validity of Auxi	liary Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-static	on processing chain as missing or containin	a 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 asse	ssment of the measurement quality by the processing chain.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20150223T072944_20150223T073858_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_2_20150223T085003_20150223T085048_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150223T120400_20150223T120522_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 proces	ssing chain as missing or containing errors.			
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220150223T222424_20150223T225455_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 Flag	gs			
Each product is checked to detect parameters related to SWH and sigma0 that	at are flagged by the processing chain as m	issing 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 e	errors.		
Number of products with errors: 5				
Product.				
Product	Test Failed	Description		
	Test Failed Ocean Retracking Quality Flag	Description 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_220150223T051441_20150223T052403_B001		The Ocean Retracking Quality Flag is set indicating the CFI Ocean		
CS_OFFL_SIR_FDM_220150223T051441_20150223T052403_B001 CS_OFFL_SIR_FDM_220150223T081535_20150223T083543_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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean		
CS_OFFL_SIR_FDM_220150223T051441_20150223T052403_B001 CS_OFFL_SIR_FDM_220150223T081535_20150223T083543_B001 CS_OFFL_SIR_FDM_220150223T163516_20150223T164754_B001	Ocean Retracking Quality Flag 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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean		
Product           CS_OFFL_SIR_FDM_220150223T051441_20150223T052403_B001           CS_OFFL_SIR_FDM_220150223T081535_20150223T083543_B001           CS_OFFL_SIR_FDM_2_20150223T163516_20150223T164754_B001           CS_OFFL_SIR_FDM_2_20150223T172926_20150223T173901_B001           CS_OFFL_SIR_FDM_2_20150223T222424_20150223T225455_B001	Ocean Retracking Quality Flag Ocean Retracking Quality Flag 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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.		

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	151	0	0	0	0
SIR_FDM_2	150	0	0	0	0
7.1 QCC Errors					
lumber of QCC reports with errors: 0					
7.2 Missing QCC Reports					
Number of products with missing (	QCC reports: All				

r of products with missing QCC reports