

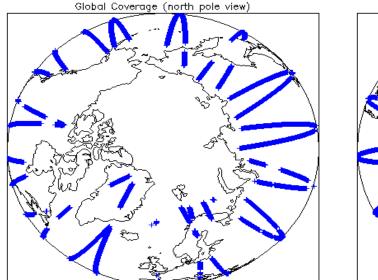
# IDEAS+ Daily Report for NRT data:

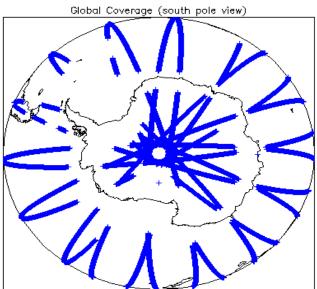
# <u>21/02/2015</u>

Report Production Date:	23-Feb-2015	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	
	(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	

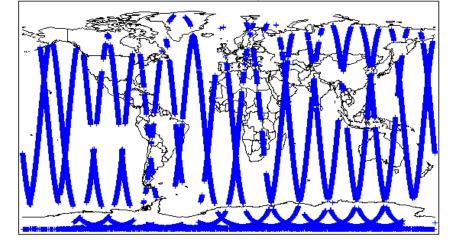
20-Feb-2015	None
21-Feb-2015	
22-Feb-2015	Nothing planned







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 Check				
Each product is checked for missing Data Set Descriptors wit 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				
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).		
lumber 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 SPH	H in order to identify any inconsistencies ar	nd/or errors raised by the ground-segment processing chain		
Number of products with errors: 0	The order to lacinary any moonolotenoloc a	and choice raided by the greated beginning proceeding onlain.		
CALLAD EDM Augulture Date File Uncore Observe				
5.3 L1B FDM Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors wrt a pre-determined bas Number of products with errors: 0	eline and also to check the validity of Auxil	iary Data Files is correct.		
·				
5.4 L1B 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				
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: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_1B_20150221T085230_20150221T085322_B001 CS_OFFL_SIR_FDM_1B_20150221T120620_20150221T120749_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected		
	, and the control of			
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 ensure	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 FDN	/ 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 SPH field #33). They a Data Set Records free of processing errors is below the minimum acceptable thresh				
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	iary 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 containin	n errors		
Number of products with errors: 0	a processing onain as missing or containing			
6.5 L2 FDM Measurement Confidence Flags	eeeed The bit where statis 2 - 1			
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement re Number of products with errors: 2	ecord. The dit value of this flag is an asses	sment of the measurement quality by the processing chain.		
CS_OFFL_SIR_FDM_220150221T085230_20150221T0853322_B001	Test Failed Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220150221T120620_20150221T120749_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_220150221T040933_20150221T042751_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_220150221T075247_20150221T080458_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. 0

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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150221T032028_20150221T034957_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_220150221T040933_20150221T042751_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_220150221T051708_20150221T052632_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_220150221T075247_20150221T080458_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_220150221T160203_20150221T161948_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_220150221T163751_20150221T165020_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_220150221T173148_20150221T174124_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_220150221T174401_20150221T175859_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	146	0	0	0	0	
SIR_FDM_2	146	0	0	0	0	
7.1 QCC Errors						
Number of QCC reports with errors: 0						
7.2 Missing QCC Repo	orts					
Number of products with missing QCC reports: All						