

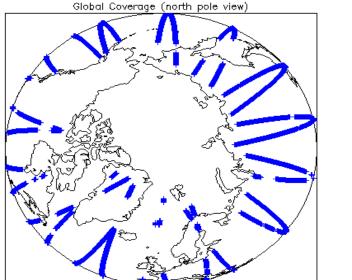
# IDEAS+ Daily Report for NRT data:

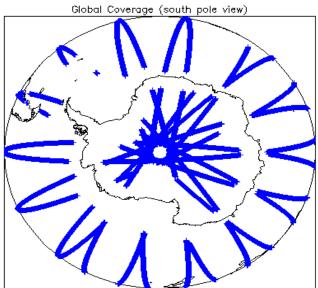
# <u>13/02/2015</u>

Report Production Date:	16-Feb-2015	Check	Status
Report Production Date.		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	See Section 5.3 and 6.3
		Correction Error Flags	See Sections 5.4 and 6.4
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8

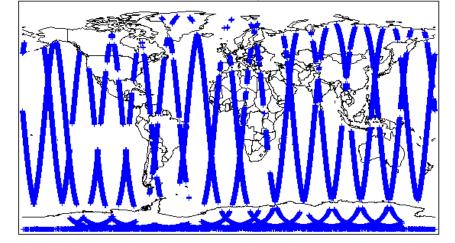
Mission / Instrument News				
12-Feb-2015	SIRAL unavailability on 12-February-2015 from 10:00:54 to 11:48:58 due to a planned orbit manoeuvre.			
13-Feb-2015	None			
14-Feb-2015	Nothing planned			







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.

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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 value of this flag indicates any problems when set.					
Number of products with errors: 0					
5. Level 1B FDM Data Quality Check					
5.1 L1B FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensu	ire it consists of both an XML header file (.HDF	R) 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 SF	PH in order to identify any inconsistencies and/	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 ba	seline and also to check the validity of Auxiliar	y Data Files is correct.			
Number of products with errors: 60					
Product	AUX File	Comment			
All FDM_1B products up to 20150213T090339 (60 products)	CS_OPER_AUXIIONGIM_20150213T00000	00_20 Missing Forecast Auxiliary File: CS_OPER_AUXIIONGIM			
	150213T235959_0001				
5.4 L1B FDM Correction Error Flags					
Each product is checked to detect auxiliary corrections flagged by the ground-static	on processing chain as missing or containing e	errors.			
Number of products with errors: 60					
Product	Test Failed D	escription			
All FDM_1B products up to 20150213T090339 (60 products)		ue to a missing Forecast Auxiliary File, there was an error with the GIM nospheric correction.			
		·			
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	g indicates any problems when set.			
Number of products with errors: 4					
Product CS OFFL SIR FDM 1B 20150213T090314 20150213T090339 B001		escription he attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150213T103940_20150213T103947_B001	5	he attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150213T121641_20150213T121737_B001	-	he attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150213T150354_20150213T153945_B001	Attitude correction missing	he attitude has not been corrected			
6 L ove	el 2 FDM Data Quality Chec				
0. Leve	er zir Divir Data Quality Chec	~~			
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 header file (.HDF	R) 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 SF	PH in order to identify any inconsistencies and/	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					
This issue is under investigation.					
Number of products with errors: 0					
6.3 L2 FDM Auxiliary Data File Usage Check					
	seline and also to check the validity of Availant	v Data Files is correct			
Each product is checked for missing Data Set Descriptors wrt a pre-determined ba Number of products with errors: 60	Senne and also to check the validity of AUXIIIar	y Dala I 1105 15 CUITECL.			
Product AUX File Comment					
	CS_OPER_AUXIIONGIM_20150213T00000				
All FDM_2 products up to 20150213T090339 (60 products)	150213T235959_0001				

### 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: 60

Product	Test Failed	Description
All FDM_2 products up to 20150213T090339 (60 products)	Lionospheric correction error	Due to a missing Forecast Auxiliary File, there was an error with the lonospheric correction.

### 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: 4

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150213T090314_20150213T090339_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150213T103940_20150213T103947_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150213T121641_20150213T121737_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150213T150354_20150213T153945_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. 5

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150213T023816_20150213T023840_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_220150213T041910_20150213T043811_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_220150213T090314_20150213T090339_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_220150213T200041_20150213T201306_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_220150213T210651_20150213T212738_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:

#### 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_220150213T023816_20150213T023840_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_220150213T041910_20150213T043811_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_220150213T090314_20150213T090339_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_220150213T123718_20150213T131211_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_220150213T141624_20150213T144438_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_220150213T161147_20150213T161428_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_220150213T184153_20150213T185429_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_220150213T200041_20150213T201306_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	174	0	0	0	0		
SIR_FDM_2	173	0	0	0	0		
7.1 QCC Errors							
Number of QCC reports with errors: 0							
7.2 Missing QCC Reports							
Number of products with missing QCC reports: All							