

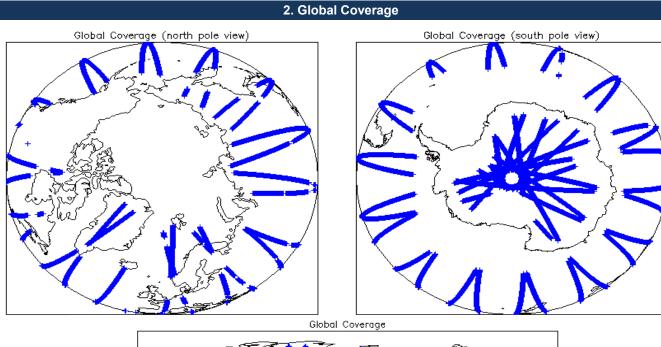
# IDEAS+ Daily Report for NRT data:

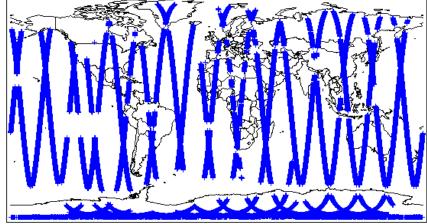
# <u>28/12/2014</u>



Demont Draduction Dates	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	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
27-Dec-2014	None
28-Dec-2014	None
29-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 Check							
		of Auxilian Data Ellas is somet					
Each product is checked for missing Data Set Descriptors wrt a pre-deter Number of products with errors: 0	nined baseline and also to check the validity of	of Auxiliary Data Flies 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 wor	d (field 11) for each measurement record. The	e bit value of this flag indicates any problems when set.					
Number of products with errors: 0							
5	Loval 1R EDM Data Quality	v Chook					
3.	Level 1B FDM Data Quality	y Check					
5.1 L1B FDM Product Format Check							
Each product, retrieved and unpacked from the science server, is checked	d to ensure it consists of both an XML header	r file (.HDR) and a binary product file (.DBL).					
Number of products with errors: 0							
5.2 L1B FDM Product Header Analysis							
	L and CDL in order to identify any inconsister.	ning and/or array raised by the array of example array of the					
For all products, a series of pre-defined checks are carried out on the MP Number of products with errors: 0	and SPH in order to identify any inconsister	icles 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-deter	mined baseline 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 gro	und station processing chain as missing or or						
Number of products with errors: 0		intaining 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 flag indicates any problems when set.					
Number of products with errors: 8							
Product	Test Failed	Description					
CS_OFFL_SIR_FDM_1B_20141228T074136_20141228T074551_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141228T074703_20141228T080239_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141228T080452_20141228T080751_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141228T080857_20141228T082034_B001 CS_OFFL_SIR_FDM_1B_20141228T122432_20141228T122740_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141228T122432_20141228T122740_B001	Attitude correction missing	The attitude has not been corrected					
CS OFFL SIR FDM 1B 20141228T154309 20141228T154402 B001	Attitude correction missing	The attitude has not been corrected					
CS OFFL SIR FDM 1B 20141228T190634 20141228T191009 B001							
6.	Level 2 FDM Data Quality	<sup>v</sup> Check					
6.1 L2 FDM Product Format Check							
Each product, retrieved and unpacked from the science server, is checke	d to ensure it consists of both an XML header	r file (.HDR) and a binary product file (.DBL)					
Number of products with errors: 0							
C 2 L 2 FDM Product Header Analysia							
6.2 L2 FDM Product Header Analysis							
For all products, a series of pre-defined checks are carried out on the MP	A and SPH in order to identify any inconsister	ncies and/or errors raised by the processing chain.					
	3). They are set by the FDM processor when	cc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field an error is detected during the L2 processing and also when the percentage of tty 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-deter	mined baseline and also to check the validity	of Auviliany Data Files is correct					
Number of products with errors: 0	THING DESCRIPTION AND AND TO CHECK THE VARIATE	or realinery Data i noo to correct.					
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: 8		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141228T074136_20141228T074551_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T074703_20141228T080239_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T080452_20141228T080751_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T080857_20141228T082034_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T122432_20141228T122740_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T140400_20141228T140453_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T154309_20141228T154402_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141228T190634_20141228T191009_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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141228T031607_20141228T032127_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_220141228T033800_20141228T035938_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_220141228T092857_20141228T093606_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_220141228T112846_20141228T113951_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
Number of	products with errors:	

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141228T033800_20141228T035938_B001	Ũ	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_220141228T031607_20141228T032127_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_220141228T065625_20141228T071356_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_220141228T092857_20141228T093606_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_220141228T112846_20141228T113951_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_220141228T125008_20141228T130231_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_220141228T142356_20141228T145746_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	172	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: