

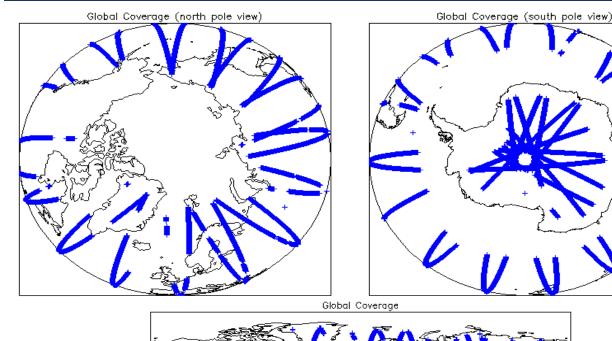
# IDEAS+ Daily Report for NRT data:

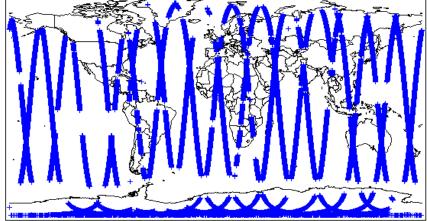
## <u>08/07/2015</u>

Report Production Date:	09-Jul-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	
		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	

2. Global Coverage

07-Jul-2015	None
08-Jul-2015	None
09-Jul-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

## 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-determine	d 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 (fie	ld 11) for each measurement record. The	e bit value of this flag indicates any problems when set.
Number of products with errors: 0	,	
5. Le	vel 1B FDM Data Qualit	v Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked 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		
For all products, a series of pre-defined checks are carried out on the MPH an	d SPH in order to identify any inconsister	ncies 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-determine	d baseline and also to check the validity	of Auxiliary 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-	station processing chain as missing or co	ontaining errors.
lumber of products with errors: 0	,	
CryoSat L1B data includes a measurement confidence flag word (field 18) for a Attitude Correction Missing: In Baseline-C all FDM products are missing Att eleases. Number of products with errors: 6		or this hag indicates any problems when set. not available in time for processing. This is a known issue and will be fixed in future
Product CS OFFL SIR FDM 1B 20150708T015821 20150708T015830 C001	Test Failed Attitude correction missing	Description The attitude has not been corrected
	Attitude correction missing	The attitude has not been corrected
S_OFFL_SIR_FDM_1B_20150708T051106_20150708T051238_C001	Attitude correction missing	The attitude has not been corrected
S_OFFL_SIR_FDM_1B_20150708T080143_20150708T083502_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150708T113820_20150708T114936_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150708T170207_20150708T170822_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Le	evel 2 FDM Data Quality	/ Check
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked 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 L2 FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH an	d SPH in order to identify any inconsister	ncies and/or errors raised by the processing chain.
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-determine	d baseline and also to check the validity	of Auxiliary 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 processing chain as missing or containing errors.

0

Number of products with errors:

#### 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.

Attitude Correction Missing: In Baseline-C all FDM products are missing Attitude Correction as star tracker data are not available in time for processing. This is a known issue and will be fixed in future releases.

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150708T015821_20150708T015830_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150708T033433_20150708T033443_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150708T051106_20150708T051238_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150708T080143_20150708T083502_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150708T113820_20150708T114936_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150708T170207_20150708T170822_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

#### 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.

2

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150708T035448_20150708T041036_C001	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_220150708T103634_20150708T104615_C001		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: 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 errors.

0

All

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150708T033443_20150708T034047_C001	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_220150708T035448_20150708T041036_C001	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_220150708T103634_20150708T104615_C001	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_220150708T161636_20150708T164942_C001	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	144	0	0	0	0
SIR_FDM_2	143	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: