

IDEAS+ Daily Report for NRT data:

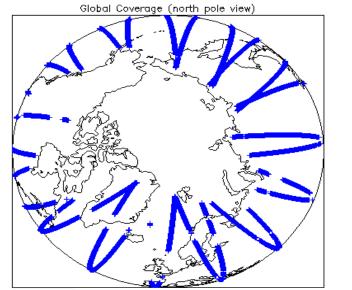
<u>25/06/2015</u>

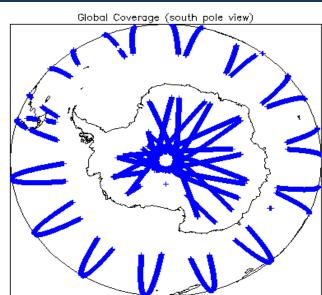
Report Production Date:	26-Jun-2015	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal	
Data Used:	(FDM), and CAL Data	Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	
		Correction Error Flags	Nominal	
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8	

Overview

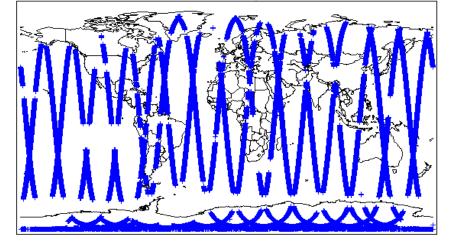
24-Jun-2015	None
25-Jun-2015	None
26-Jun-2015	Nothing planned

2. Global Coverage





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

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 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 ensure it consists of both an XML header 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 and SPH 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 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 containing errors.
Number of products with errors: 0
5.5 L1B FDM Measurement Confidence Flags
CryoSat L1B data includes a measurement confidence flag word (field 18) for each measurement record. The bit value of this flag indicates any problems when set.
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: 19

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150625T025721_20150625T030304_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T044008_20150625T044528_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T045917_20150625T053146_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T053905_20150625T054433_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T054740_20150625T055221_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T055518_20150625T060434_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T060506_20150625T061006_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T061149_20150625T061439_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T061609_20150625T061730_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T061741_20150625T061822_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T062259_20150625T062302_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T062318_20150625T062608_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T063808_20150625T064827_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T064953_20150625T071141_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T071805_20150625T071909_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T071912_20150625T072320_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T072728_20150625T075325_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T075339_20150625T075529_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150625T181203_20150625T181611_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

6. Level 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 file (.HDR) and a binary product file (.DBL) 0

Number of products with errors:

6.2 L2 FDM 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 Number of products with errors:

6.3 L2 FDM 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

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.

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: 18

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150625T025721_20150625T030304_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T044008_20150625T044528_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T045917_20150625T053146_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T053905_20150625T054433_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T054740_20150625T055221_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T060506_20150625T061006_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T061149_20150625T061439_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T061609_20150625T061730_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T061741_20150625T061822_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T062259_20150625T062302_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T062318_20150625T062608_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T063808_20150625T064827_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T064953_20150625T071141_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T071805_20150625T071909_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T071912_20150625T072320_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T072728_20150625T075325_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T075339_20150625T075529_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150625T181203_20150625T181611_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.

Number of products with errors: 3					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220150625T004950_20150625T010505_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.			
CS_OFFL_SIR_FDM_220150625T180756_20150625T180857_C001	5 5	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_220150625T233145_20150625T233712_C001	5 5	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.

0

0

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150625T004950_20150625T010505_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_220150625T114221_20150625T115247_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_220150625T180756_20150625T180857_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_220150625T221941_20150625T225618_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.

SIR_FDM_1B 181 0 0 0 0 0	Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
	SIR_FDM_1B	181	0	0	0	0
SIR_FDM_2 179 0 0 0 0 0 0	SIR_FDM_2	179	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: All