

# IDEAS+ Daily Report for NRT data:

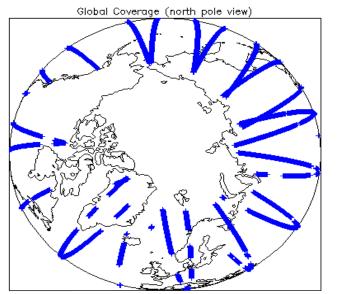
# <u>24/06/2015</u>

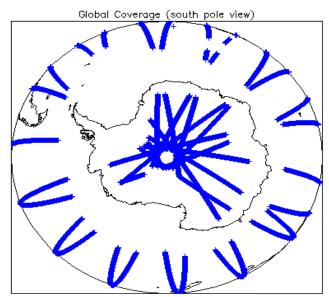
		Check	Status	
Report Production Date:	25-Jun-2015	Server check: science-pds.cryosat.esa.int	Nominal	
Data Usadi	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal	
Data Used:	(FDM), and CAL Data	Product Software Check	Nominal	
	·	Product Format Check	Nominal	
		Product 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

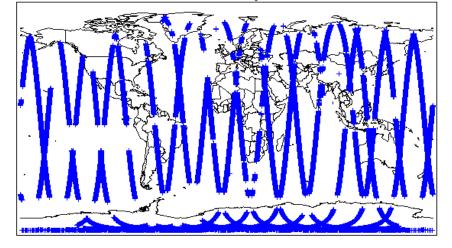
Mission / Instrument News		
23-Jun-2015	None	
24-Jun-2015	SIRAL unavailability on 24-June-2014 from 05:31:06 to 05:59:01 due to planned on-board maintentance operations.	
25-Jun-2015	Nothing planned	

# 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

	ed baseline and also to check the validity o	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	eld 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 Quality	y 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 an	Id 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	ed baseline and also to check the validity of	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.
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 a	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 Att eleases.	titude Correction as star tracker data are	not available in time for processing. This is a known issue and will be fixe
CICA3C5.		
Number of products with errors: 7		
	Test Failed	Description
Product	Test Failed Attitude correction missing	Description The attitude has not been corrected
Product CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001		•
Product CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001 CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001	Attitude correction missing	The attitude has not been corrected
Product           CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001           CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001           CS_OFFL_SIR_FDM_1B_20150624T052854_20150624T052955_C001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
Product           CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001           CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001           CS_OFFL_SIR_FDM_1B_20150624T052854_20150624T052955_C001           CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001	Attitude correction missing Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected The attitude has not been corrected
Product           CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001           CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001           CS_OFFL_SIR_FDM_1B_20150624T052854_20150624T052955_C001           CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001           CS_OFFL_SIR_FDM_1B_20150624T07084014_20150624T070922_C001           CS_OFFL_SIR_FDM_1B_20150624T084914_20150624T070922_C001	Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected The attitude has not been corrected The attitude has not been corrected
Number of products with errors:         7           Product	Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
Product           CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001           CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001           CS_OFFL_SIR_FDM_1B_20150624T052854_20150624T052955_C001           CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001           CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001           CS_OFFL_SIR_FDM_1B_20150624T084914_20150624T085107_C001           CS_OFFL_SIR_FDM_1B_20150624T090538_20150624T094058_C001           CS_OFFL_SIR_FDM_1B_20150624T174256_20150624T174925_C001	Attitude correction missing         Echo error         Echo error	The attitude has not been corrected         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo
Product CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001 CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001 CS_OFFL_SIR_FDM_1B_20150624T052854_20150624T052955_C001 CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001 CS_OFFL_SIR_FDM_1B_20150624T084914_20150624T085107_C001 CS_OFFL_SIR_FDM_1B_20150624T090538_20150624T094058_C001 CS_OFFL_SIR_FDM_1B_20150624T174256_20150624T174925_C001 CS_OFFL_SIR_FDM_1B_20150624T174256_20150624T174925_C001 CS_OFFL_SIR_FDM_1B_20150624T174256_20150624T174925_C001	Attitude correction missing         Echo error	The attitude has not been corrected         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo
Product           CS_OFFL_SIR_FDM_1B_20150624T032013_20150624T034552_C001           CS_OFFL_SIR_FDM_1B_20150624T034556_20150624T035227_C001           CS_OFFL_SIR_FDM_1B_20150624T052854_20150624T052955_C001           CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001           CS_OFFL_SIR_FDM_1B_20150624T070800_20150624T070922_C001           CS_OFFL_SIR_FDM_1B_20150624T084914_20150624T085107_C001           CS_OFFL_SIR_FDM_1B_20150624T090538_20150624T094058_C001           CS_OFFL_SIR_FDM_1B_20150624T174256_20150624T174925_C001	Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing Echo error Echo error Echo error	The attitude has not been corrected         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo <b>Check</b>

### 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. 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 baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 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

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:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150624T034556_20150624T035227_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150624T052854_20150624T052955_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150624T070800_20150624T070922_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150624T084914_20150624T085107_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150624T090538_20150624T094058_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150624T174256_20150624T174925_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.

6

Number of products with errors: 2

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150624T083007_20150624T084318_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_220150624T124443_20150624T125908_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: 0

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.					
Number of products with errors: 2					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220150624T104406_20150624T110316_C001		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_220150624T124443_20150624T125908_C001		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	133	0	0	0	0
SIR_FDM_2	133	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