

## IDEAS+ Daily Report for NRT data:

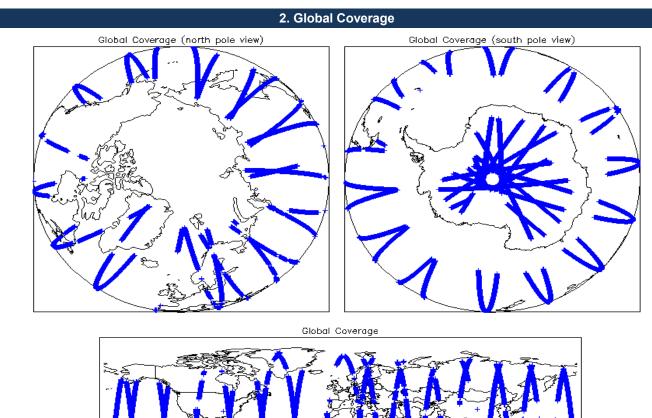
## 04/07/2014



### 1. Overview

Report Production Date:	07-Jul-2014	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	Nominal
		Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8

- 1	Mission / Instrument News			
	03-Jul-2014	None		
	04-Jul-2014	None		
	05-Jul-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, 2 & 3	

# 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	ed 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 (fit	eld 11) for each measurement record. Th	e bit value of this flag indicates any problems when set.
Number of products with errors: 0		
5. Le	vel 1B FDM Data Qualit	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 heade	r file ( HDR) and a binary product file ( DBI )
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 ar	nd 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 Auxiliary Data Eiles 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 ground-	station processing chain as missing or co	antaining errors
Number of products with errors: 0		
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors: 8	each measurement record. The bit value	of this flag indicates any problems when set.
Product CS_OFFL_SIR_FDM_1B_20140704T001825_20140704T001848_B001	Test Failed Attitude correction missing	Description The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140704T002123_20140704T002133_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20140704T034201_20140704T034354_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140704T164811_20140704T165647_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140704T190041_20140704T190716_B001	Attitude correction missing	
CS_OFFL_SIR_FDM_1B_20140704T201330_20140704T201344_B001	Ű	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140704T214943_20140704T214957_B001 CS_OFFL_SIR_FDM_1B_20140704T232617_20140704T232752_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
6. L	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 heade	r file (.HDR) 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 ar	nd SPH in order to identify any inconsister	ncies and/or errors raised by the processing chain.
	hey are set by the FDM processor when	oc_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 ntly set to 5%).
This issue is under investigation.		
Number of products with errors: 0		

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.

0

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.

Number of products with errors: 7		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140704T001825_20140704T001848_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140704T034201_20140704T034354_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140704T164811_20140704T165647_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140704T190041_20140704T190716_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140704T201330_20140704T201344_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140704T214943_20140704T214957_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140704T232617_20140704T232752_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_220140704T021509_20140704T022206_B001		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_220140704T040504_20140704T040811_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_220140704T122526_20140704T124511_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_220140704T193922_20140704T195753_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_220140704T203709_20140704T204630_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: 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

9

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140704T021509_20140704T022206_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_220140704T040504_20140704T040811_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_220140704T121022_20140704T121542_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_220140704T122526_20140704T124511_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_220140704T162002_20140704T163511_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_220140704T171221_20140704T172549_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_220140704T193922_20140704T195753_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_220140704T203709_20140704T204630_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_220140704T233104_20140704T233237_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	156	0	0	0	0
SIR_FDM_2	154	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