

# IDEAS+ Daily Report for NRT data:

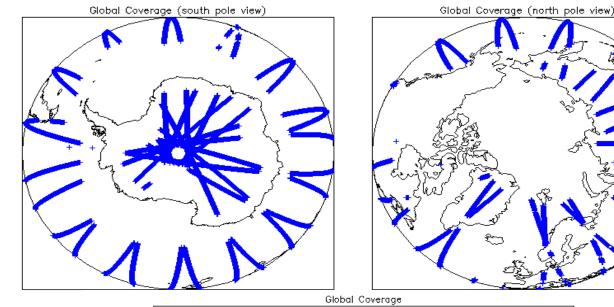
## <u>18/12/2014</u>

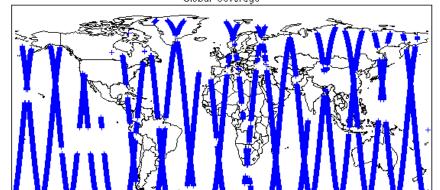
1. Overview					
Report Production Date:	23-Dec-2014	Check	Status		
		Server check: science-pds.cryosat.esa.int	Nominal		
Data Used:	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal		
	(FDM), and CAL Data	Product Software Check	Nominal		
		Product Format Check	Nominal		
		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		

Mission / Instrument News			
17-Dec-2014	None		
18-Dec-2014	None		
19-Dec-2014	SIRAL unavailability on 19-December-2014 from 04:31:12 to 05:33:49 due to a planned orbit manoeuvre		

ed orbit manoeuvre

#### 2. 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 & 2	

# 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. Th	ne bit value of this flag indicates any problems when set.
Number of products with errors: 0		
5. Le	vel 1B FDM Data Quali	ty 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 bead	er 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 an	d SPH in order to identify any inconsiste	encies 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		
	d baseline and also to check the validity	r of Auviliany Data Files is correct
Each product is checked for missing Data Set Descriptors wrt a pre-determine Number of products with errors: 0	ה המשבוותב מתם מוסט נט נתופנא נחפ Validity	
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-	station processing chain as missing or o	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 14) for o	each measurement record. The bit value	e of this flag indicates any problems when set.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20141218T123344_20141218T124025_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141218T141613_20141218T141720_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141218T155549_20141218T155614_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141218T191933_20141218T192053_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_IB_20141218T191933_20141218T192033_6001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Le	evel 2 FDM Data Qualit	y 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 head	er 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 an	d SPH in order to identify any inconsiste	encies and/or errors raised by the processing chain.
	hey are set by the FDM processor when	roc_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		
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	v 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 o	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 measuren	nent record. The bit value of this flag is	an assessment of the measurement quality by the processing chain.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141218T123344_20141218T124025_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141218T141613_20141218T141720_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141218T155549_20141218T155614_B001	Attitude correction missing	The attitude has not been corrected

 CS\_OFFL\_SIR\_FDM\_2\_20141218T191933\_20141218T192053\_B001
 Attitude correction missing

 CS\_OFFL\_SIR\_FDM\_2\_20141218T202443\_20141218T203835\_B001
 Echo error

The Echo Rx1 Error flag is set, indicating a degraded raw echo

The attitude has not been corrected

6.6 L2 FDM Range Measurement Flags				
Each product is checked to detect range measurements flagged by the proces Number of products with errors: 1	sing chain as missing or containing errors.			
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220141218T022303_20141218T024451_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 Flag	js			
Each product is checked to detect parameters related to SWH and sigma0 tha Number of products with errors: 0 6.8 L2 FDM Geophysical Measurement Flags	r are hagged by the processing chain as n			
Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.          Number of products with errors:       5				
Product CS_OFFL_SIR_FDM_220141218T022303_20141218T024451_B001	Test Failed Ocean Retracking Quality Flag	Description 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_220141218T090418_20141218T091859_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_220141218T161608_20141218T162459_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_220141218T171802_20141218T173037_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_220141218T193652_20141218T194539_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	155	0	0	0	0	
SIR_FDM_2	152	0	0	0	0	
7.1 QCC Errors						
Number of QCC reports with errors: 0						
7.2 Missing QCC Reports						
Number of products with missing QCC reports: All						