

IDEAS+ Daily Report for NRT data:

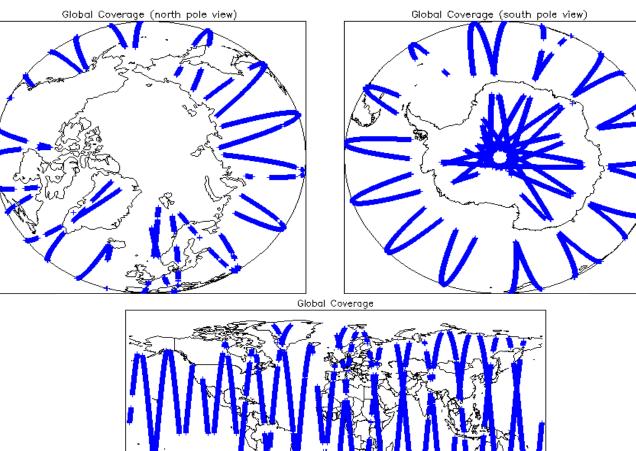
<u>29/03/2015</u>

Report Production Date:	30-Mar-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	
	(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	

2. Global Coverage

1 Overview

28-Mar-2015	None
29-Mar-2015	None
30-Mar-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

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.

Number of products with errors:

0

4.3 L1 CAL Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors wrt a pre-determined ba Number of products with errors: 0	aseline and also to check the validity of A	uxiliary Data Files is correct.		
4.4 L1 CAL Measurement Confidence Flags				
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 1	1) for each measurement record. The bit	value of this flag indicates any problems when set		
Number of products with errors: 0				
5. Leve	I 1B FDM Data Quality (Check		
5.1 L1B FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensu	ire it consists of both an XML beader file	(HDR) and a binary product file (DRI)		
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 Si Number of products with errors: 0	PH in order to identify any inconsistencie	s and/or errors raised by the ground-segment processing chain.		
5.3 L1B FDM Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors wrt a pre-determined ba	seeline and also to check the validity of A	uviliary 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-stati Number of products with errors: 0	on processing chain as missing or conta	ining errors.		
5.5 L1B FDM Measurement Confidence Flags				
CryoSat L1B data includes a measurement confidence flag word (field 14) for each Number of products with errors: 1	n measurement record. The bit value of t	his flag indicates any problems when set.		
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_1B_20150329T132434_20150329T135648_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
6. Leve	el 2 FDM Data Quality C	heck		
6.1 L2 FDM Product Format Check	•			
Each product, retrieved and unpacked from the science server, is checked to ensu Number of products with errors: 0	ure it consists of both an XML header file	(.HDR) and a binary product file (.DBL)		
6.2 L2 FDM Product Header Analysis				
For all products, a series of pre-defined checks are carried out on the MPH and SI	PH in order to identify any inconsistencie	s and/or errors raised by the processing chain.		
Currently there is a high number of processing error flags set within the Level 2 FE #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They Data Set Records free of processing errors is below the minimum acceptable three	are set by the FDM processor when an	error is detected during the L2 processing and also when the percentage of		
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-determined ba	aseline and also to check the validity of A	uviliary 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-stati Number of products with errors: 0	on processing chain as missing or conta	ining errors.		
6.5 L2 FDM Measurement Confidence Flags				
	record. The hit value of this flow is an as	account of the measurement suclify by the successing chairs		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement Number of products with errors: 1	record. The bit value of this hag is an as	sessment of the measurement quality by the processing chain.		
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220150329T132434_20150329T135648_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
6.6.1.2 EDM Pango Mozeuroment Elege				
6.6 L2 FDM Range Measurement Flags				
Each product is checked to detect range measurements flagged by the processing Number of products with errors: 1	g cnain as missing or containing errors.			
	Test Failed	Description		
Product CS_OFFL_SIR_FDM_220150329T015359_20150329T021813_C001	Test Failed OCOG Retracked Range Flag	Description 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.		
		1		

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.

0

All

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. Number of products with errors: 3				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220150329T015359_20150329T021813_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_220150329T023614_20150329T030939_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_220150329T073350_20150329T080731_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	158	0	0	0	0
SIR_FDM_2	155	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with er	rors: ()			

7.2 Missing QCC Reports

Number of products with missing QCC reports: