

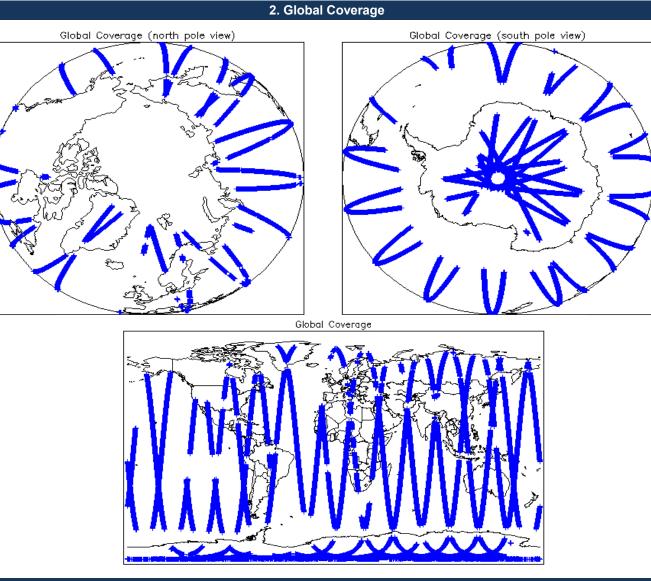
IDEAS+ Daily Report for NRT data:

<u>12/05/2015</u>

Report Production Date:	18-May-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, 6.7 and 6.8

Overview

11-1viay-2013	NOTIC
12-May-2015	None
13-May-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.

4.3 L1 CAL Auxiliary Data File Usage C	heck		
Each product is checked for missing Data Set Descriptors	wrt a pre-determined bas	seline and also to check the validity of A	uxiliary Data Files is correct.
Number of products with errors: 0			
4.4 L1 CAL Measurement Confidence F	lags		
CryoSat Cal1 and Cal2 data includes a measurement conf	idence 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	1		
	5. Level	1B FDM Data Quality C	Check
5.1 L1B FDM Product Format Check			
Each product, retrieved and unpacked from the science se	erver, is checked to ensu	re it consists of both an XML header file	(.HDR) and a binary product file (.DBL).
Number of products with errors: 0	1		
5.2 L1B FDM Product Header Analysis			
For all products, a series of pre-defined checks are carried	l out on the MPH and SP	H in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0	1		
5.3 L1B FDM Auxilary Data File Usage	Check		
Each product is checked for missing Data Set Descriptors		seline and also to check the validity of A	uxiliary 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 flag	gged by the ground-statio	n processing chain as missing or contai	ning errors.
Number of products with errors: 0			-
5.5 L1B FDM Measurement Confidence	Flags		
CryoSat L1B data includes a measurement confidence flag	-	measurement record. The bit value of th	is flag indicates any problems when set.
Attitude Correction Missing: In Baseline-C all FDM prod			available in time for processing. This is a known issue and will be fixed in future
releases. Number of products with errors: 3			
	•	Test Esiled	Description
Product CS_OFFL_SIR_FDM_1B_20150512T011207_20150512T	012704_C001	Test Failed Echo error	Description The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150512T055828_20150512T	060946_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150512T204647_20150512T	204808_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
	6. Leve	I 2 FDM Data Quality C	heck
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the science se	erver, is checked to ensu	re it consists of both an XML header 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	l out on the MPH and SP	H 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 C	heck		
Each product is checked for missing Data Set Descriptors	wrt a pre-determined bas	seline and also to check the validity of A	uxiliary Data Files is correct.
Number of products with errors: 0	1		
6.4 L2 FDM Correction Error Flags			
Each product is checked to detect auxiliary corrections flag	gged by the ground-statio	n processing chain as missing or contai	ning errors.
Number of products with errors: 0)		
6.5 L2 FDM Measurement Confidence F	Flags		
CryoSat L2 data includes a quality flag word (field 8) for each	ach 20-Hz measurement i	record. The bit value of this flag is an as	sessment of the measurement quality by the processing chain.
Attitude Correction Missing: In Baseline-C all FDM prod releases.	lucts are missing Attitude	Correction as star tracker data are not a	available in time for processing. This is a known issue and will be fixed in future
Number of products with errors: 3	ł		
Product		Test Failed	Description
CS_OFFL_SIR_FDM_220150512T011207_20150512T		Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_2_20150512T055828_20150512T		Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150512T204647_20150512T	204000_0001	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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150512T011207_20150512T012704_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_220150512T042055_20150512T043032_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_220150512T061516_20150512T062611_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_220150512T150049_20150512T151930_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.

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: 1		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150512T123101_20150512T124038_C001	OCOG Backscatter Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #47, #48, #49 and #50 should be ignored for these records.

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

All

Number of products with errors: 4				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220150512T011207_20150512T012704_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_220150512T061516_20150512T062611_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_220150512T123101_20150512T124038_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_220150512T150049_20150512T151930_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	132	0	0	0	0
SIR_FDM_2	136	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: