

Report Production Date:

Data Used:

IDEAS+ Daily Report for NRT data:

14/12/2014

Nominal

Nominal

Nominal

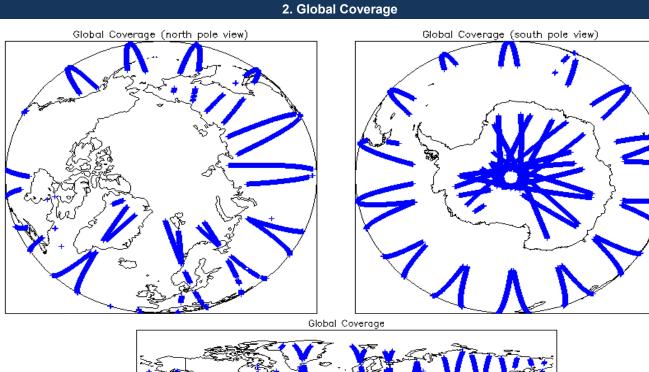
1. Overview			
15-Dec-2014		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
L1 and L2 Fast Delivery Marine Mode		Server check: calval-pds.cryosat.esa.int	Nominal
(FDM), and CAL Data		Product Software Check	Nominal
· · · · · · · · · · · · · · · · · · ·		Product Format Check	Nominal

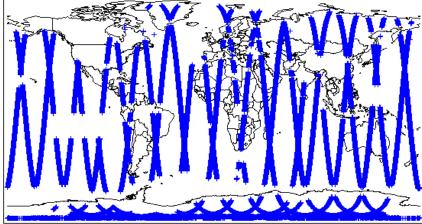
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instr	ument News		
13-Dec-2014	None		
14-Dec-2014	None		
15-Dec-2014	Nothing planned		

Product Header Analysis

Auxiliary Data File Usage

Correction Error Flags





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.

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4.3 L1 CAL Auxiliary Data File Usage Check				
	applies and also to shook the validity of August	lian. Data Eilaa ja aarraat		
Each product is checked for missing Data Set Descriptors wrt a pre-determined be Number of products with errors: 0	aseline and also to check the validity of Aux			
·				
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 va	lue of this flag indicates any problems when set.		
Number of products with errors: 0				
5. Leve	el 1B FDM Data Quality Ch	neck		
5.1 L1B FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header file (.h	IDR) 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 and S	PH in order to identify any inconsistencies a	nd/or errors raised by the ground segment processing chain		
Number of products with errors: 0		nuror entris 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 by	aseline and also to check the validity of Aux	liany Data Files is correct		
Number of products with errors: 0	assume and also to check the validity of AUX			
5.4 L1B Correction Error Flags				
Each product is checked to detect auxiliary corrections flagged by the ground-stat	ion processing chain as missing or containir	ig 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 eac	h measurement record. The bit value of this	flag indicates any problems when set.		
Number of products with errors: 6				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_1B_20141214T123844_20141214T123848_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141214T123850_20141214T124532_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141214T142001_20141214T142220_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141214T160036_20141214T160059_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141214T192435_20141214T192518_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141214T212505_20141214T213412_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
6. Lev	el 2 FDM Data Quality Ch	eck		
6.1 L2 FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header file (.h	IDR) 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 and S	PH in order to identify any inconsistencies a	nd/or errors raised by the processing chain.		
Currently there is a high number of processing error flags set within the Level 2 FI				
#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 thre	are set by the FDM processor when an error	or 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 Aux	liary 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-stat	ion processing chain as missing or containir	ig 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 measurement	t record. The bit value of this flag is an asse	ssment of the measurement quality by the processing chain.		
Number of products with errors: 5	-	· · · · ·		
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220141214T123850_20141214T124532_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220141214T142001_20141214T142220_B001	Attitude correction missing	The attitude has not been corrected		
S_OFFL_SIR_FDM_220141214T160036_20141214T160059_B001 Attitude correction missing The attitude has not been corrected				
CS_OFFL_SIR_FDM_220141214T192435_20141214T192518_B001 Attitude correction missing The attitude has not been corrected				

Echo error

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

CS_OFFL_SIR_FDM_2__20141214T212505_20141214T213412_B001

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.				
Number of products with errors: 2				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220141214T121145_20141214T123454_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_220141214T132511_20141214T133516_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.

All

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141214T091009_20141214T091942_B001		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_220141214T094658_20141214T095728_B001		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_220141214T121145_20141214T123454_B001		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_220141214T132511_20141214T133516_B001		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	172	0	0	0	0
SIR_FDM_2	169	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with en	rrors: 0				

7.2 Missing QCC Reports

Number of products with missing QCC reports: