

IDEAS+ Daily Report for NRT data:

<u>23/12/2014</u>

<u>INRTUALA.</u> 23/	12/2014
1. Overview	
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-nds cryosat esa int	Nominal

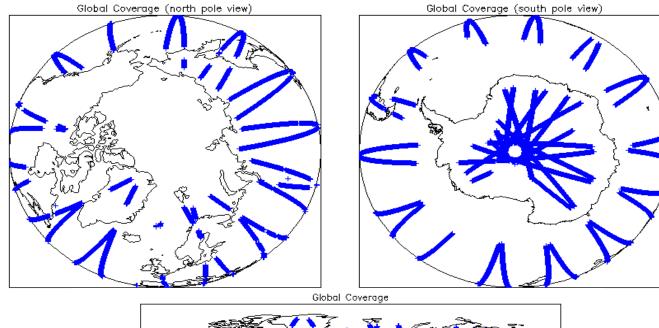
INFAC.

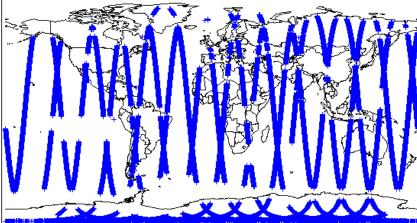
Depart Draduation Dates	: 02-Jan-2015 Check		Status	
Report Production Date:	02-Jan-2015		Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode		Server check: calval-pds.cryosat.esa.int	Nominal
Data Useu.	(FDM), and CAL Data		Product Software Check	Nominal
			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				
22-Dec-2014 None				
23-Dec-2014 None				

23-Dec-2014	None
24 Dec 2014	Nothing planned

24-Dec-2014	Nothing planned

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

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-determined	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		
	ld (1) for each measurement record. Th	
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (fie Number of products with errors: 0	id 11) for each measurement record. Tr	e bit value of this flag indicates any problems when set.
5. Le	vel 1B FDM Data Qualit	ty Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML heade	er file (.HDR) 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	d SPH in order to identify any inconsiste	project and/or errors raised by the ground cogment processing chain
Number of products with errors: 0	a SFIT in order to identify any inconsiste	ancies and/or enors 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	d baseline and also to check the validity	of Auxiliary Data Files 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-s	station processing chain as missing or c	containing errors.
Number of products with errors: 0		·
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5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for e	each measurement record. The bit value	e of this flag indicates any problems when set.
Number of products with errors: 5		
Product CS_OFFL_SIR_FDM_1B_20141223T114601_20141223T114605_B001	Test Failed	Description The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141223T132215_20141223T132220_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141223T145849_20141223T150222_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_201412231143049_201412231130022_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141223T234342_20141223T234802_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Le	evel 2 FDM Data Quality	y Check
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML heade	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 and		
	ney 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 intly 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-determined	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-s	station processing chain as missing or c	ontaining 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 measurem	ent record. The bit value of this flag is a	an assessment of the measurement quality by the processing chain
Number of products with errors: 5	Service of the bit value of this hay is a	an accession of the measurement quality by the processing chain.
Product	Test Failed	Description
Product CS_OFFL_SIR_FDM_220141223T114601_20141223T114605_B001	Attitude correction missing	Description The attitude has not been corrected
CS_OFFL_SIR_FDM_220141223T132215_20141223T132220_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141223T145849_20141223T150022_B001	Attitude correction missing	The attitude has not been corrected

 CS_OFFL_SIR_FDM_2_20141223T174916_20141223T182252_B001
 Attitude correction missing

 CS_OFFL_SIR_FDM_2_20141223T234342_20141223T234802_B001
 Echo error

ion missing The attitude has not been corrected 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.	

Number of products with errors:	2

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141223T080940_20141223T081908_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_220141223T122430_20141223T123502_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:

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

0

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141223T061313_20141223T064546_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_220141223T080940_20141223T081908_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_220141223T122430_20141223T123502_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	159	0	0	0	0
SIR_FDM_2	158	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: