

IDEAS+ Daily Report for NRT data:

<u>11/07/2015</u>



1. Overview

Report Production Date:	13-Jul-2015	Check	Status	
Report Production Date:		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 Used:	(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	

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11-Jul-2015	None
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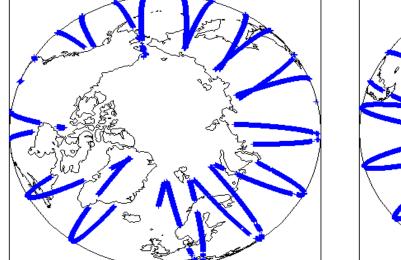
Global

Cover

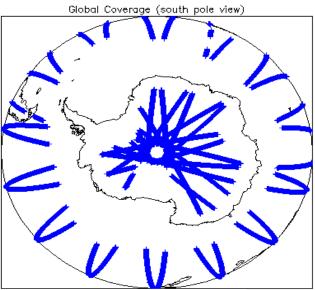
rade

12-Jul-2015 Nothing planned

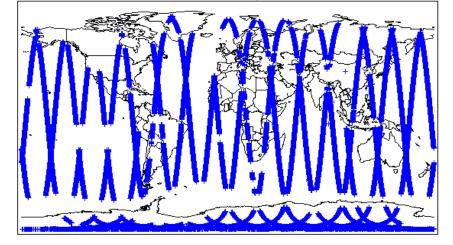




(north pole view)



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-determi	ined 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	(field 11) for each measurement record. Th	e bit value of this flag indicates any problems when set.		
Number of products with errors: 0				
5. L	evel 1B FDM Data Quali	v Check		
5.1 L1B FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked a Number of products with errors: 0	to ensure it consists of both an XML heade	r file (.HDR) and a binary product file (.DBL).		
5.2 L1B FDM 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 inconsiste	ancies and/or errors raised by the ground-segment processing chain		
Number of products with errors: 0		noise 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-determi	ined baseline and also to check the validity	of Auxiliary 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 groun	nd-station processing chain as missing or c	ontaining errors.		
Number of products with errors: 0				
5.5 L1B FDM Measurement Confidence Flags				
CryoSat L1B data includes a measurement confidence flag word (field 18) for	or each measurement record. The bit value	e of this flag indicates any problems when set.		
Number of products with errors: 6				
Product CS_OFFL_SIR_FDM_1B_20150711T012059_20150711T013806_C001	Test Failed Echo error	Description The Echo Rx1 Error flag is set, indicating a degraded raw echo		
CS_OFFL_SIR_FDM_1B_20150711T023918_20150711T024236_C001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150711T041852_20150711T041942_C001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150711T055818_20150711T055844_C001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150711T092146_20150711T092412_C001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150711T122819_20150711T123642_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
6. 1	Level 2 FDM Data Quality	/ Check		
6.4.1.2 EDM Droduct Format Chaok				
6.1 L2 FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked in	to ensure it consists of both an XML heade	r 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 SPH in order to identify any inconsiste	encies and/or errors raised by the processing chain.		
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	ined baseline and also to check the validity	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 groun	nd-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 measur	rement record. The bit value of this flag is a	an assessment of the measurement quality by the processing chain.		
Attitude Correction Missing: In Baseline-C all FDM products are missing releases.	Attitude Correction as star tracker data are	not available in time for processing. This is a known issue and will be fixed in future		
Number of products with errors: 6				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220150711T012059_20150711T013806_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
CS_OFFL_SIR_FDM_220150711T023918_20150711T024236_C001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220150711T041852_20150711T041942_C001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220150711T055818_20150711T055844_C001	Attitude correction missing	The attitude has not been corrected		

 CS_OFFL_SIR_FDM_2_20150711T092146_20150711T092412_C001
 Attitude correction missing

 CS_OFFL_SIR_FDM_2_20150711T122819_20150711T123642_C001
 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 processing chain as missing or containing errors.

5

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150711T021034_20150711T023516_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_220150711T063016_20150711T065128_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_220150711T111226_20150711T113007_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_220150711T113029_20150711T113311_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_220150711T173646_20150711T173704_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: 0

0

All

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: 4			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_220150711T063016_20150711T065128_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_220150711T111226_20150711T113007_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_220150711T113029_20150711T113311_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_220150711T173646_20150711T173704_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	137	0	0	0	0
SIR_FDM_2	137	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: