

IDEAS+ Daily Report for NRT data:

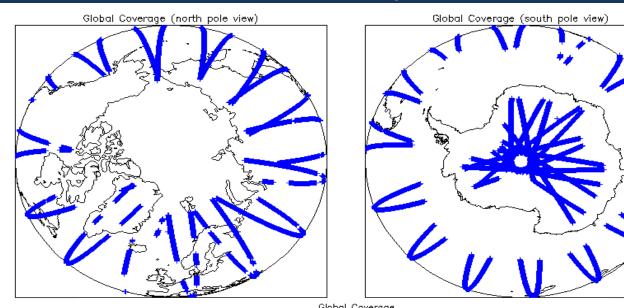
23/07/2015

Panart Braduction Data	24-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	

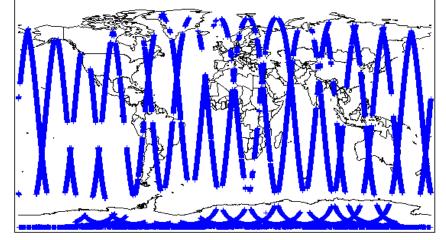
Overview

Mission / Instrument News			
22-Jul-2015	None		
23-Jul-2015	None		
24-Jul-2015	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 & 3

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-determin	ned 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. The	e bit value of this flag indicates any problems when set.				
Number of products with errors: 0						
5 1	evel 1B FDM Data Quality	v Check				
		y onech				
5.1 L1B FDM Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to	o ensure it consists of both an XML header	r 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 a	and SPH in order to identify any inconsister	ncies and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0		····· ··· ······ ······ ······ ······ ····				
5.3 L1B FDM Auxilary Data File Usage Check						
Each product is checked for missing Data Set Descriptors wrt a pre-determin	ned 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 ground Number of products with errors: 0	a-station processing chain as missing or co	ontaining errors.				
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	of this flag indicates any problems when set.				
Number of products with errors: 8						
Product	Test Failed	Description				
CS_OFFL_SIR_FDM_1B_20150723T022103_20150723T022211_C001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150723T022214_20150723T022720_C001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150723T040348_20150723T040449_C001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150723T054252_20150723T054418_C001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150723T061535_20150723T063641_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo				
CS_OFFL_SIR_FDM_1B_20150723T072343_20150723T072605_C001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150723T155356_20150723T160042_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo				
	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo				
	1	1 				
6. L	_evel 2 FDM Data Quality	/ Check				
6.1 L2 FDM Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to	o ensure it consists of both an XML header	r file (.HDR) and a binary product file (.DBL)				
Number of products with errors: 0						
6.2.1.2 EDM Broduct Header Analysis						
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 inconsistencies 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-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

6.4 L2 FDM Correction Error Flags

Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors.

Number of products with errors:

0

0

6.5 L2 FDM Measurement Confidence Flags

CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chain.

Number of	products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150723T022214_20150723T022720_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150723T040348_20150723T040449_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150723T054252_20150723T054418_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150723T061535_20150723T063641_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150723T072343_20150723T072605_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150723T155356_20150723T160042_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150723T220218_20150723T221146_C001	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.

1

0

7

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150723T060055_20150723T061249_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:

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	nroducts	with errors:	4

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150723T060055_20150723T061249_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_220150723T134455_20150723T135619_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_220150723T200625_20150723T202311_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_220150723T220218_20150723T221146_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	145	0	0	0	0	
SIR_FDM_2	142	0	0	0	0	
7.1 QCC Errors						
Number of QCC reports with errors: 0						
7.2 Missing QCC Reports						
Number of products with missi	Number of products with missing QCC reports: All					