

IDEAS+ Daily Report for NRT data:

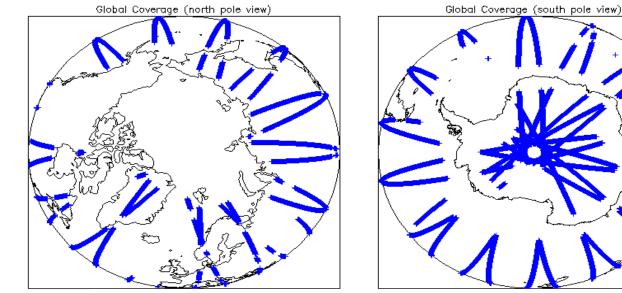
<u>16/01/2015</u>

Report Production Date:	19-Jan-2015	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int	Nominal
		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

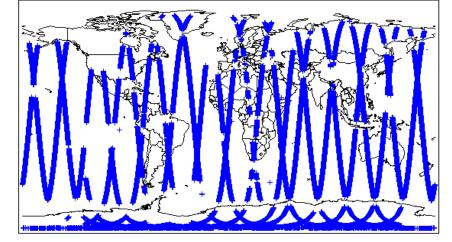
Mission / Instrument News			
15-Jan-2015	None		
16-Jan-2015	None		
17 Jon 2015			

17-Jan-2015 SIRAL unavailability on 17-January-2015 from 03:55:47 to 17:21:15 due to a planned orbit manoeuvre

2. Global Coverage



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 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	d 11) for each measurement record. The bit va	lue of this flag indicates any problems when set.			
Number of products with errors: 0					
5. Lev	el 1B FDM Data Quality Ch	leck			
5.1 L1B FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to en	nsure it consists of both an XML header file (.F	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	SPH in order to identify any inconsistencies a	nd/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-determined	baseline and also to check the validity of Auxi	liary Data Files is correct.			
Number of products with errors: 0	···· ··· ··· ··· ··· ··· ··· ··· ··· ·				
5.4 L1B Correction Error Flags					
	ation processing chain as missing or containin				
Each product is checked to detect auxiliary corrections flagged by the ground-st Number of products with errors: 0	ation processing chain as missing or containin	g enois.			
5.5 L1B FDM Measurement Confidence Flags					
· · · · · · · · · · · · · · · · · · ·	ach macaurament record. The hit value of this	flag indicates any problems when act			
CryoSat L1B data includes a measurement confidence flag word (field 14) for each Number of products with errors: 4		nag indicates any problems when set.			
	u .				
Product CS_OFFL_SIR_FDM_1B_20150116T110838_20150116T111521_B001	Test Failed Attitude correction missing	Description The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150116T125108_20150116T125216_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150116T143045_20150116T143111_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150116T175425_20150116T175600_B001	Attitude correction missing	The attitude has not been corrected			
6 0	vel 2 FDM Data Quality Ch	ack			
6.1 L2 FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to er	nsure 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	SPH 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 #29) and also within the L2 Product files (MPH field #35 and SPH field #33). The Data Set Records free of processing errors is below the minimum acceptable the	ey are set by the FDM processor when an error	r 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	baseline and also to check the validity of Auxi	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-st	ation processing chain as missing or containin	g 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	ent record. The bit value of this flag is an asses	ssment of the measurement quality by the processing chain.			
Number of products with errors: 4					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220150116T110838_20150116T111521_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150116T125108_20150116T125216_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150116T143045_20150116T143111_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150116T175425_20150116T175600_B001	Attitude correction missing	The attitude has not been corrected			

6.6 L2 FDM Range Measurement Flags		
Each product is checked to detect range measurements flagged by the proces	ssing chain as missing or containing errors.	
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150116T000346_20150116T003132_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 Flag	gs	
Each product is checked to detect parameters related to SWH and sigma0 that	at are flagged by the processing chain as m	issing 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.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150116T000346_20150116T003132_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_220150116T081713_20150116T082840_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_220150116T162957_20150116T170336_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.
	Ocean Retracking Quality Flag Ocean Retracking Quality Flag	
CS_OFFL_SIR_FDM_220150116T162957_20150116T170336_B001 CS_OFFL_SIR_FDM_220150116T205336_20150116T205922_B001 CS_OFFL_SIR_FDM_220150116T223200_20150116T224157_B001		Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean

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.

Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors		
161	0	0	0	0		
158	0	0	0	0		
Number of QCC reports with errors: 0						
7.2 Missing QCC Reports						
Number of products with missing QCC reports: All						
	161 158 ors: 0 rts	161 0 158 0 vors: 0 rts	161 0 0 158 0 0 ors: 0 0	161 0 0 0 158 0 0 0 ors: 0 rts		