

IDEAS Daily Report for NRT data:

05-Dec-2013

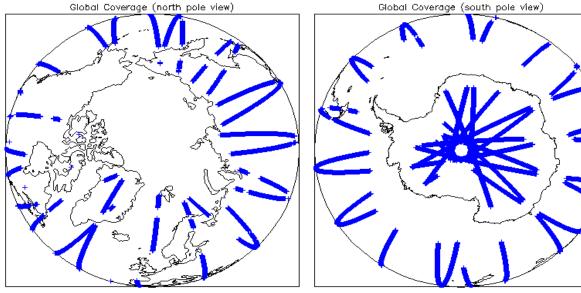


1. Overview				
Depart Draduction Date:	06 Dec 2012	Check	Status	
Report Production Date:	06-Dec-2013	Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	
		Correction Error Flags	Nominal	
		Measurement Confidence Flags	See Sections 6.6 and 6.8	

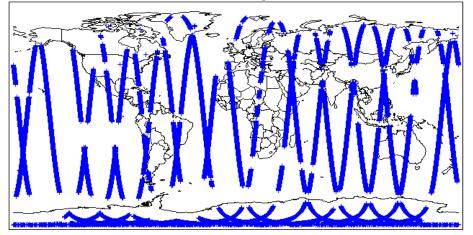
Mission / Instrument News			
04-Dec-2013	None		
05-Dec-2013	SIRAL unavailability from 5-Dec-2013 08:54:54 to 10:43:09 due to a planned orbit manoeuvre.		
06-Dec-2013	Nothing planned		

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 & 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).

0

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. Number of products with errors: 0

4.3 L1 CAL Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline an Number of products with errors: 0	nd also to check the validity of Auxiliary	Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) for each Number of products with errors: 0	ch measurement record. The bit value o	of this flag indicates any problems when set.
5. Level 1B FD	M Data Quality Check	
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure it cons Number of products with errors: 0	sists of both an XML header 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 orden Number of products with errors: 0	er to identify any inconsistencies and/or	r 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-determined baseline an Number of products with errors: 0	nd also to check the validity of Auxiliary	Data Files is correct.
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station process Number of products with errors: 0	ssing chain as missing or containing err	rors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each measure Number of products with errors: 0	rement record. The bit value of this flag	indicates any problems when set.
6. Level 2 FD	M Data Quality Check	
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure it cons Number of products with errors: 0	sists of both an XML header file (.HDR)	and a binary product file (.DBL)
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 ord Currently there is a high number of processing error flags set within the Level 2 FDM produ		
field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are percentage of Data Set Records free of processing errors is below the minimum acceptable 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 an Number of products with errors: 0	nd also to check the validity of Auxiliary	Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station process Number of products with errors: 0	ssing chain as missing or containing err	rors.
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 assessme	ent of the measurement quality by the processing chain.
Number of products with errors: 0		
6.6 L2 FDM Range Measurement Flags		
Each product is checked to detect range measurements flagged by the processing chain as Number of products with errors: 3	s missing or containing errors.	
Product	Test Failed	Description The master fail flag is set by the OCOG call, for one or more
CS_OFFL_SIR_FDM_2_20131205T005448_20131205T011730_B001	OCOG Retracked Range Flag	records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. The master fail flag is set by the OCOG call, for one or more
CS_OFFL_SIR_FDM_2_20131205T063406_20131205T065631_B001 CS_OFFL_SIR_FDM_2_20131205T194714_20131205T195801_B001	OCOG Retracked Range Flag OCOG Retracked Range Flag	records, indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. 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

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. 8

All

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220131205T005448_20131205T011730_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_220131205T063406_20131205T065631_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_220131205T082006_20131205T084044_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_220131205T104329_20131205T105352_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_220131205T113307_20131205T115828_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_220131205T122147_20131205T125522_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_220131205T141727_20131205T141846_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_220131205T194714_20131205T195801_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	158	0	0	0	0
SIR_FDM_2	154	0	0	0	0

7.1 QCC Errors			
Number of QCC reports with errors:	0		
7.2 Missing QCC Reports			

Number of products with missing QCC reports: