

IDEAS Daily Report for NRT data:

<u>31-Jan-2014</u>



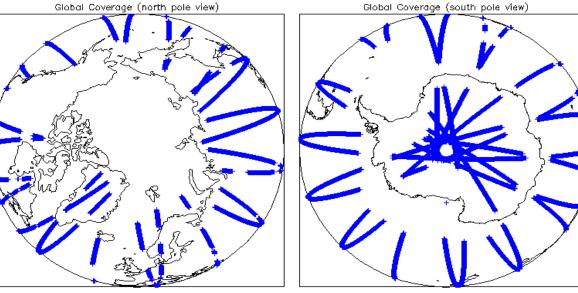
1. Overview				
Report Production Date:	03-Feb-2014	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	
		Correction Error Flags	Nominal	
		Measurement Confidence Flags	See Sections 5.5, 6.5 and 6.8	

Mission / Instrument News		
30-Jan-2014	None	
31-Jan-2014	SIRAL unavailability from 31-Jan-2014 06:06:19 to 07:51:30 due to a planned orbit manoeuvre.	
01-Feb-2014	Nothing planned	

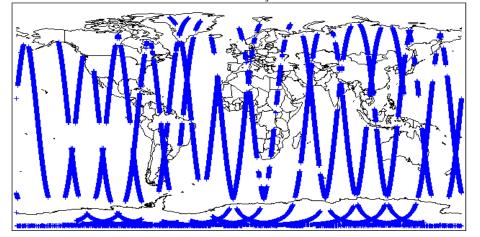
2. Global Coverage

Global Coverage (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).

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	d also to check the validity of Auxiliary D	ata 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 eac	h measurement record. The bit value of	this flag indicates any problems when set.		
Number of products with errors: 0				
E Lovel 4B ED	M Data Quality Check			
	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	ists of both an XML header file (.HDR) a	nd 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	er to identify any inconsistencies 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-determined baseline an	d also to check the validity of Auxiliary D	ata Eiles 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-station process	ssing chain as missing or containing erro	rs.		
Number of products with errors: 0				
5.5 L1B FDM Measurement Confidence Flags				
CryoSat L1B data includes a measurement confidence flag word (field 14) for each measure	ement record. The bit value of this flag in	dicates any problems when set.		
Number of products with errors: 3				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_1B_20140131T044109_20140131T050740_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20140131T082307_20140131T082439_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20140131T100348_20140131T100626_B001	Attitude correction missing	The attitude has not been corrected		
6. Level 2 FDI	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	ists of both an XML header file (.HDR) a	nd 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	er to identify any inconsistencies and/or e	errors raised by the processing chain.		
Currently there is a high number of processing error flags set within the Level 2 FDM produc				
field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are s 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	d also to check the validity of Auxiliary D	ata Files is correct.		
6.4 L2 FDM Correction Error Flags				
Each product is checked to detect auxiliary corrections flagged by the ground-station proces	ssing chain as missing or containing erro	rs.		
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 record. The bit value of this flag is an assessment of the measurement quality by the processing chain.				
Number of products with errors: 3				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220140131T044109_20140131T050740_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220140131T082307_20140131T082439_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220140131T100348_20140131T100626_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 processing chain as missing or containing errors. 0

Number of products with errors:

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

Number of products with errors: 2 Product

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140131T011604_20140131T013050_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_220140131T210602_20140131T213320_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	156	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: All