

# IDEAS Daily Report for NRT data:

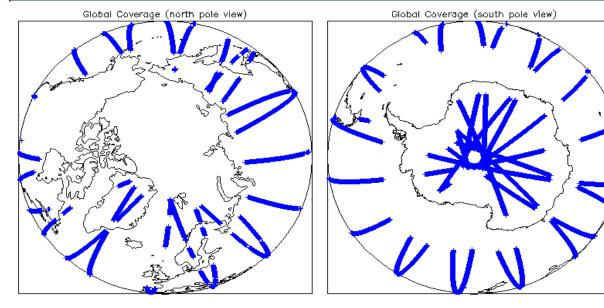
<u>05-Jan-2014</u>



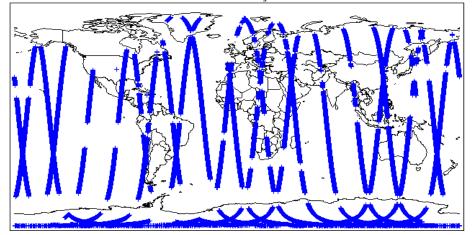
1. Overview				
Report Production Date:	06-Jan-2014	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	
		Correction Error Flags	Nominal	
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8	

Mission / Instrument News			
04-Jan-2014	SIRAL unavailability from 4-Jan-2014 03:58:00 to 07:22:10 due to planned instrument roll manoeuvres.		
05-Jan-2014	SIRAL unavailability from 5-Jan-2014 15:41:00 to 18:53:10 due to planned instrument roll manoeuvres.		
06-Jan-2014	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	d also to check the validity of Auxiliary D	ata 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	ch measurement record. The bit value of	this flag indicates any problems when set.
Number of products with errors: 0		
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	ists of both an XML header file (.HDR) a	nd 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 orde Number of products with errors: 0	er to identify any inconsistencies 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-determined baseline an Number of products with errors: 0	d also to check the validity of Auxiliary D	ata Files is correct.
5.4 L1B 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		
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: 3	ement record. The bit value of this flag ir	dicates any problems when set.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20140105T053443_20140105T054041_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140105T085528_20140105T085556_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140105T121938_20140105T121955_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	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	set by the FDM processor when an error	is detected during the L2 processing and also when the
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	d also to check the validity of Auxiliary D	lata 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-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. T	he bit value of this flag is an assessmer	t of the measurement quality by the processing chain.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140105T053443_20140105T054041_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_2_20140105T085528_20140105T085556_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140105T121938_20140105T121955_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. 3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140105T082537_20140105T083105_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.
CS_OFFL_SIR_FDM_220140105T091610_20140105T092451_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.
CS_OFFL_SIR_FDM_220140105T135540_20140105T135640_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 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. 5

0

All

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140105T082537_20140105T083105_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_220140105T091610_20140105T092451_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_220140105T123701_20140105T123831_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_220140105T125011_20140105T130739_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_220140105T135540_20140105T135640_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	149	0	0	0	0
SIR_FDM_2	147	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: