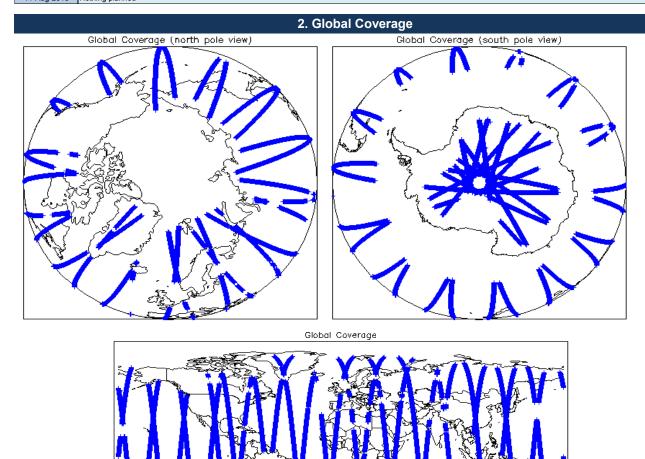
	AS Daily Report for NRT	<u>data: 10-Aug-2013</u>	IDEAS Y
		1. Overview	
		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Report Production Date:	13-Aug-2013	Product Format Check	Nominal
Report Production Date.		Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Auxiliary Data File Usage	Nominal
Data Oseu.		Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrument News			
09-Aug-2013 None			
10-Aug-2013 None			
11-Aug-2013 Nothing planne	d		



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: 0

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	e and also to check the validity of Auxiliary E	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 bit value of	this flag indicates any problems when set.
Number of products with errors: 0		
5. Level 1B F	DM Data Quality Check	
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure it c	onsists of both an XML header file (.HDR) a	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 a Number of products with errors: 0	order 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	e and also to check the validity of Auxiliary E	Data Files 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 pro	ocessing chain as missing or containing erro	ors.
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 mea	surement record. The bit value of this flag ir	ndicates any problems when set.
Number of products with errors: 18		
Product	Test Failed	Description
All SIR_FDM_1B products up to 20130810T020129 (13 products)	Attitude correction missing	The attitude has not been corrected due to missing Star Tracker files.
CS_OFFL_SIR_FDM_1B_20130810T101759_20130810T102356_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20130810T131102_20130810T133745_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130810T151406_20130810T151507_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130810T151902_20130810T152017_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20130810T165317_20130810T165428_B001	Attitude correction missing	The attitude has not been corrected
6. Level 2 F	DM Data Quality Check	
6.1 L2 FDM Product Format Check		
		and a big and stat fla (DDL)

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: 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 and/or errors raised by the processing chain.

Currently there is a high number of processing error flags set within the Level 2 FDM products (Product_Err and L2_Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are set by the FDM processor when an error is detected during the L2 processing and also when the percentage of Data Set Records free of processing errors is below the minimum acceptable threshold set within the processor (currently set to 5%).

This issue is under investigation.

Number of products with errors:

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. 0

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.

0

0

Number of products with errors:

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: 18				
Product	Test Failed	Description		
All SIR_FDM_1B products up to 20130810T020129 (13 products)	Attitude correction missing	The attitude has not been corrected due to missing Star Tracker files.		
CS_OFFL_SIR_FDM_220130810T101759_20130810T102356_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.		
CS_OFFL_SIR_FDM_220130810T131102_20130810T133745_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220130810T151406_20130810T151507_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected		
CS_OFFL_SIR_FDM_220130810T151902_20130810T152017_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.		
CS_OFFL_SIR_FDM_220130810T165317_20130810T165428_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. 2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130810T005207_20130810T010828_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_220130810T194456_20130810T195727_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. 9

0

2

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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130810T005207_20130810T010828_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_220130810T021727_20130810T022244_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_220130810T103544_20130810T103748_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_220130810T131102_20130810T133745_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_220130810T150901_20130810T151228_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_220130810T202906_20130810T204816_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_220130810T205019_20130810T210501_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_220130810T213854_20130810T215507_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_220130810T231555_20130810T233422_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	138	137	87	50	0
SIR_FDM_2	138	137	0	137	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name CS_OFFL_SIR_FDM_1B_20130809T235044_20130810T000115_B001 CS_OFFL_SIR_FDM_2__20130809T235044_20130810T000115_B001