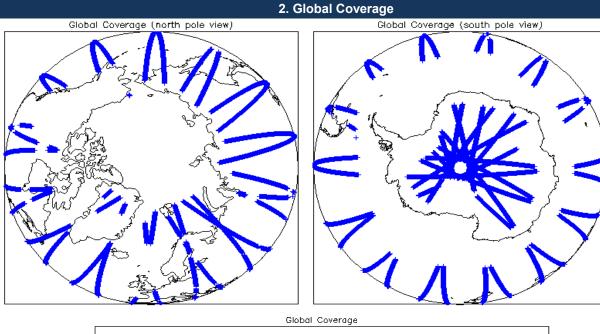
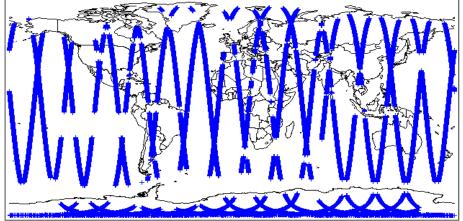
	EAS Daily Report for NRT	<u>data:</u> <u>22-Aug-2013</u>	IDEAS Y
		1. Overview	
		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Demont Developedie v Deter	22 Aug 2012	Product Format Check	Nominal
Report Production Date:	23-Aug-2013	Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine	Auxiliary Data File Usage	Nominal
Data Osed:	Mode (FDM), and CAL Data	Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
	E		
Mission / Instrument News			
21-Aug-2013 None			
22-Aug-2013 None			
23-Aug-2013 Nothing plann	ed		





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.

Number of products with errors:

0

Each product is checked for missing Data Set Descriptors Number of products with errors:	wrt a pre-determined ba	aseline and also to check the validity of Aux	iliary Data Files is correct.
4.4 L1 CAL Measurement Confidence F	lags		
		11) for each measurement record. The hit w	alue of this flag indicates any problems when set
CryoSat Cal1 and Cal2 data includes a measurement conf Number of products with errors:		TT) for each measurement record. The bit v	are of this hag indicates any problems when set.
		1B FDM Data Quality Che	ock.
	5. Levei		5CN
5.1 L1B FDM Product Format Check			
Each product, retrieved and unpacked from the science se Number of products with errors:	erver, is checked to ensu	ure it consists of both an XML header file (.I	IDR) and a binary product file (.DBL).
5.2 L1B FDM Product Header Analysis			
-	l out on the MPH and S	PH in order to identify any inconsistencies of	and/or errors raised by the ground-segment processing chain.
Number of products with errors:			motor 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 ba	aseline and also to check the validity of Aux	iliary Data Files is correct.
Number of products with errors:	0		
5.4 L1B Correction Error Flags			
Each product is checked to detect auxiliary corrections flag	gged by the ground-stat	ion processing chain as missing or containi	ng errors.
Number of products with errors:	0		
5.5 L1B FDM Measurement Confidence	Flags		
CryoSat L1B data includes a measurement confidence flag		h measurement record. The hit value of this	flag indicates any problems when set
Number of products with errors:	8		ing indicates any problems when set.
	-	Teet Failed	Description
Product CS_OFFL_SIR_FDM_1B_20130822T002625_20130822T	003142 B001	Test Failed Echo error	Description The Echo Rx1 Error flag is set, indicating a degraded raw e
		Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw e
CS OFFL SIR FDM 1B 20130822T090027 20130822T		Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw e
CS_OFFL_SIR_FDM_1B_20130822T102429_20130822T	_	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw e
CS_OFFL_SIR_FDM_1B_20130822T114553_20130822T		Attitude correction missing	The attitude has not been corrected
 CS_OFFL_SIR_FDM_1B_20130822T132013_20130822T		Attitude correction missing	The attitude has not been corrected
	_	Attitude correction missing	The attitude has not been corrected
		Attitude correction missing	The attitude has not been corrected
	6. Level	2 FDM Data Quality Che	ck

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:

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.

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

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:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130822T002625_20130822T003142_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130822T034403_20130822T034814_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130822T090027_20130822T091006_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130822T102429_20130822T103019_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130822T114553_20130822T114625_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130822T132013_20130822T132230_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130822T145848_20130822T150016_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130822T174929_20130822T182216_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. 1

8

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130822T132230_20130822T132859_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.

2

Number of products with errors:	4
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130822T025559_20130822T032737_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_220130822T080938_20130822T082909_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_220130822T132230_20130822T132859_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_220130822T201435_20130822T203341_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	141	140	96	44	0
SIR_FDM_2	141	140	0	140	0
1 QCC Errors					

7.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS_OFFL_SIR_FDM_1B_20130821T235204_20130822T000320_B001 CS_OFFL_SIR_FDM_2__20130821T235204_20130822T000320_B001