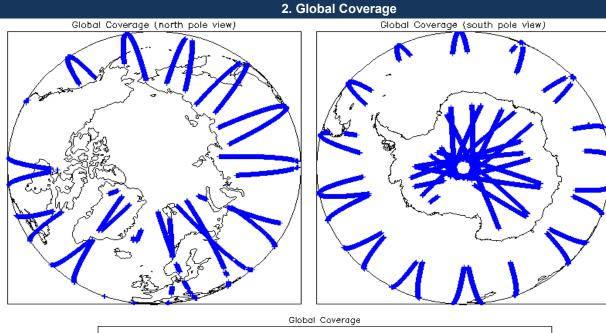
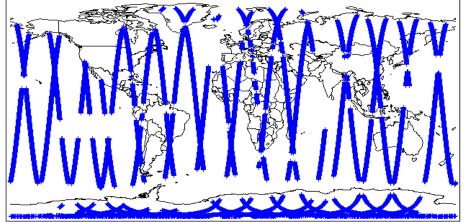
	EAS Daily Report for NRT data:		<u>21-Aug-2013</u>	IDEAS Y
		1. Ov	verview	
			Check	Status
		Serve	er check: science-pds.cryosat.esa.int	Nominal
		Serv	ver check: calval-pds.cryosat.esa.int	Nominal
			Product Software Check	Nominal
Report Production Da	te: 22-Aug-2013		Product Format Check	Nominal
Report Frounction Da	22-Aug-2013		Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine		Auxiliary Data File Usage	Nominal
Data Useu.	Mode (FDM), and CAL Data		Correction Error Flags	Nominal
			Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
		<u> </u>		
Mission / Instrument News				
20-Aug-2013 None				
21-Aug-2013 None				
22-Aug-2013 Nothing pl	anned			





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 ba	aseline and also to check the validity of Aux	iliary 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 1	11) for each measurement record. The bit va	alue of this flag indicates any problems when set.
Number of products with errors: 0		
5. Level ²	1B FDM Data Quality Che	ck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	ure it consists of both an XML header file (.F	IDR) 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 SI	PH in order to identify any inconsistencies a	nd/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 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 flagged by the ground-stati	ion processing chain as missing or containir	ng errors.
Number of products with errors: 0		
5.5 L1B FDM Measurement Confidence Flags		
• • • • • • • • • • • • • • • • • • •	h	
CryoSat L1B data includes a measurement confidence flag word (field 14) for each Number of products with errors: 6	n measurement record. The bit value of this	flag indicates any problems when set.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130821T093316_20130821T094903_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20130821T111141_20130821T113029_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20130821T123108_20130821T123534_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130821T141107_20130821T141224_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130821T155041_20130821T155108_B001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_FDM_1B_20130821T191435_20130821T191539_B001

6. Level 2 FDM Data Quality Check

Attitude correction missing

The attitude has not been corrected

6.1 L2 FDM 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

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:

0

0

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

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_220130821T093316_20130821T094903_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130821T111141_20130821T113029_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130821T123108_20130821T123534_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130821T141107_20130821T141224_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130821T155041_20130821T155108_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130821T191435_20130821T191539_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

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130821T032505_20130821T032629_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_220130821T111141_20130821T113029_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_220130821T143141_20130821T150413_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.

0

2

Number of products with errors: 6		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130821T032505_20130821T032629_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_220130821T073040_20130821T074009_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_220130821T111141_20130821T113029_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_220130821T143141_20130821T150413_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_220130821T192550_20130821T193338_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_220130821T220141_20130821T221117_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	134	133	82	51	0
SIR_FDM_2	129	128	0	128	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_20130820T235229_20130821T001031_B001 CS_OFFL_SIR_FDM_2__20130820T235229_20130821T001031_B001