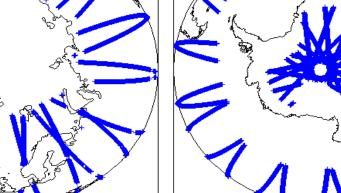
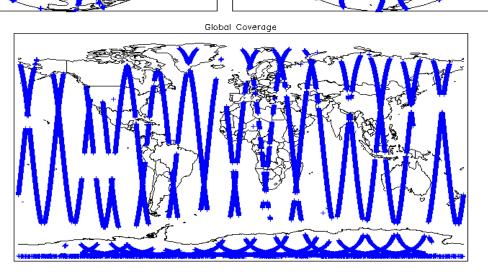
	EAS Daily Report for NR	<u>T data:</u>	<u>29-Aug-2013</u>	IDEAS T
		1. Ove	erview	
			Check	Status
		Server	check: science-pds.cryosat.esa.int	Nominal
		Serve	er check: calval-pds.cryosat.esa.int	Nominal
			Product Software Check	Nominal
Report Production Date	:: 30-Aug-2013		Product Format Check	Nominal
Report Production Date	. 30-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
		M	leasurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrument News				
28-Aug-2013 None				
29-Aug-2013 None				
30-Aug-2013 Nothing plan	ined			

2. Global Coverage Global Coverage (north pole view) Global Coverage (south pole view)





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

4.3 L1 CAL Auxiliary Data File Us	age Check
•	escriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
4.4 L1 CAL Measurement Confide	ance Flags
CryoSat Cal1 and Cal2 data includes a measure	nent 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 FDM Data Quality Check
5.1 L1B FDM Product Format Che	eck
Each product, retrieved and unpacked from the s	cience 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
5.2 L1B FDM Product Header Ana	alysis
For all products, a series of pre-defined checks a	re carried out on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	
5.3 L1B FDM Auxilary Data File U	sage Check
Each product is checked for missing Data Set De	scriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
5.4 L1B Correction Error Flags	
Each product is checked to detect auxiliary corre	ctions flagged by the ground-station processing chain as missing or containing errors.

5.5 L1B FDM Measurement Confidence Flags

CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement record. The bit value of this flag indicates any problems when set. 10

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130829T052020_20130829T053953_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130829T090113_20130829T091018_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130829T110107_20130829T112043_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130829T122157_20130829T122520_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130829T122520_20130829T122824_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130829T122927_20130829T123034_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130829T140130_20130829T140225_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130829T154058_20130829T154125_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130829T190428_20130829T190654_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130829T223331_20130829T224129_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.

6. Level 2 FDM Data Quality Check

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:

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.

Number of products with errors:

0

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:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130829T090113_20130829T091018_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130829T110107_20130829T112043_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130829T122157_20130829T122520_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130829T122520_20130829T122824_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130829T122927_20130829T123034_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130829T140130_20130829T140225_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130829T154058_20130829T154125_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130829T190428_20130829T190654_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130829T223331_20130829T224129_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.

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.

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Number of products with errors: 2		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130829T052020_20130829T053953_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_220130829T161252_20130829T163407_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:
 0

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.

Number of products with errors: 12		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130829T001641_20130829T002738_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_220130829T003307_20130829T004746_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_220130829T011445_20130829T013403_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_220130829T052020_20130829T053953_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_220130829T054347_20130829T055120_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_220130829T124756_20130829T125956_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_220130829T133813_20130829T135459_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_220130829T161252_20130829T163407_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_220130829T174829_20130829T181250_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_220130829T191607_20130829T192604_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_220130829T192742_20130829T193643_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_220130829T202601_20130829T204150_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	136	136	90	46	0
SIR_FDM_2	137	136	0	136	0

.1 QCC Errors	
umber of QCC reports with errors:	0
.2 Missing QCC Reports	
umber of products with missing QCC reports:	3

 Product name

 CS_OFFL_SIR_FDM_1B_20130828T235730_20130829T000054_B001

 CS_OFFL_SIR_FDM_1B_20130829T190428_20130829T190654_B001

 CS_OFFL_SIR_FDM_2_20130828T235730_20130829T000054_B001