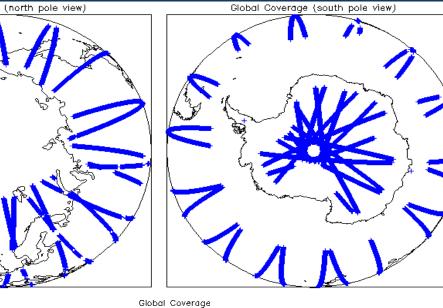
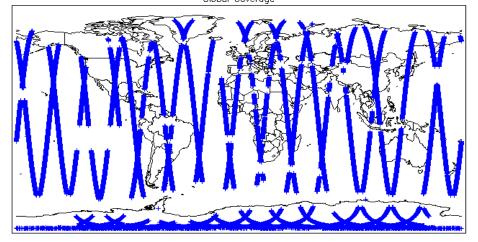
CRYDSAT	IDEAS Daily Report for NR	<u> 7 data: 06-Aug-2013</u>	IDEAS Y
		1. Overview	
		Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Report Production D	Date: 15-Aug-2013	Product Format Check	Nominal
Report Production L	TIS-Aug-2013	Product Header Analysis	Nominal
Data Used:	L1 and L2 Fast Delivery Marine	Auxiliary Data File Usage	Nominal
Dala Oseu.	Mode (FDM), and CAL Data	Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
ission / Instrument Nev	vs		
05-Aug-2013 None			
06-Aug-2013 None			
07-Aug-2013 Nothing	planned		

Global Coverage (north pole view) Globa





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 D	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 Confid	lence Flags
CryoSat Cal1 and Cal2 data includes a measure	ement 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 Ch	leck
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
5.2 L1B FDM Product Header An	alysis
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 ground-segment processing chain.
	0
Number of products with errors:	
5.3 L1B FDM Auxilary Data File	Usage Check
5.3 L1B FDM Auxilary Data File	Usage Check Descriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
5.3 L1B FDM Auxilary Data File	
5.3 L1B FDM Auxilary Data File	escriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
5.3 L1B FDM Auxilary Data File I Each product is checked for missing Data Set D Number of products with errors: 5.4 L1B Correction Error Flags	escriptors wrt a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

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.

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130806T083314_20130806T084805_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130806T100716_20130806T102815_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130806T104406_20130806T105114_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130806T133944_20130806T134250_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130806T151909_20130806T152005_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130806T165819_20130806T165917_B001	Attitude correction missing	The attitude has not been corrected

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: 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_220130806T100716_20130806T102815_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130806T104406_20130806T105114_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130806T133944_20130806T134250_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130806T151909_20130806T152005_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130806T165819_20130806T165917_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

5

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130806T031456_20130806T034725_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_220130806T070136_20130806T070920_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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130806T022937_20130806T025142_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_220130806T031456_20130806T034725_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_220130806T040428_20130806T040844_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_220130806T182101_20130806T183334_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_220130806T185538_20130806T190221_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	130	133	93	40	0
SIR_FDM_2	132	131	0	131	0
7.1 QCC Errors					
	0				
Number of QCC reports with errors: 7.2 Missing QCC Reports	0				

Number of products with missing QCC reports: