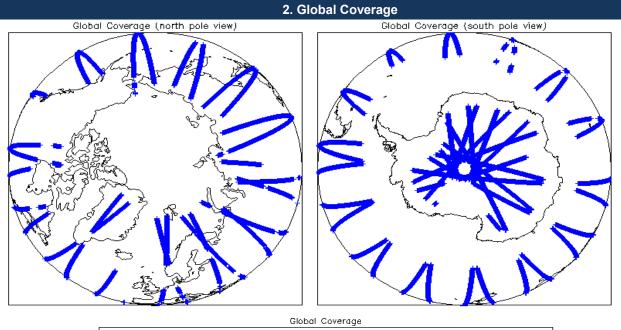
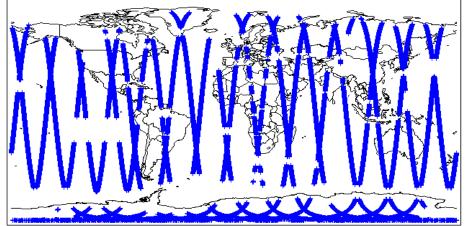
CRVOSAT		AS Daily Report for NR	<u>T data:</u>	<u>02-Aug-2013</u>	IDEAS Y
			1. Oʻ	verview	
				Check	Status
			Serv	er check: science-pds.cryosat.esa.int	Nominal
			Ser	ver check: calval-pds.cryosat.esa.int	Nominal
				Product Software Check	Nominal
Report Product	ion Doto	05 Aug 2012		Product Format Check	Nominal
Report Product	lion Date.	05-Aug-2013		Product Header Analysis	Nominal
Data Use	. du	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data		Auxiliary Data File Usage	Nominal
Data USe	eu.			Correction Error Flags	Nominal
				Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6, 6.7 and 6.8
Mission / Instrumer	nt News				
	one				
-	one				

03-Aug-2013 Nothing planned





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

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 indicat Number of products with errors: 0 5. Level 1B FDM Data Quality Check 5.1 L1B FDM Product Format Check	tes any problems when set.
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) for each measurement record. The bit value of this flag indicat Number of products with errors: 0 5. Level 1B FDM Data Quality Check 5.1 L1B FDM Product Format Check	tes any problems when set.
Number of products with errors: 0 5. Level 1B FDM Data Quality Check 5.1 L1B FDM Product Format Check	tes any problems when set.
5.1 L1B 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 pro	duct 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 order to identify any inconsistencies and/or errors raised by Number of products with errors: 0	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 and also to check the validity of Auxiliary Data Files is con	rect.
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 processing chain as missing or containing errors.	
Number of products with errors: 0	

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130802T103334_20130802T103355_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130802T104902_20130802T105610_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130802T134438_20130802T134757_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130802T152413_20130802T152504_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130802T170338_20130802T170407_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130802T202701_20130802T202948_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_220130802T103334_20130802T103355_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130802T104902_20130802T105610_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130802T134438_20130802T134757_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130802T152413_20130802T152504_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130802T170338_20130802T170407_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130802T202701_20130802T202948_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

6

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130802T152552_20130802T153013_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_220130802T165735_20130802T170009_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:	1	

CS_OFFL_SIR_FDM_2_20130802T104902_20130802T105610_B001 OCOG Backscatter Status Flag The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #47, #48, #49 and #50 should be ignored for these records.	Product	Test Failed	Description
	CS_OFFL_SIR_FDM_220130802T104902_20130802T105610_B001	OCOG Backscatter Status Flag	records, indicating the values stored in fields #47, #48, #49 and

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

1

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130802T031929_20130802T035231_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_220130802T070629_20130802T071401_B001		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_2_20130802T081708_20130802T083242_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_220130802T084321_20130802T085251_B001		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_220130802T101210_20130802T103305_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_220130802T152552_20130802T153013_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_220130802T165735_20130802T170009_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_220130802T182554_20130802T183829_B001		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_220130802T190025_20130802T190718_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	147	147	100	47	0
SIR_FDM_2	147	146	0	146	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_2__20130802T030628_20130802T031106_B001