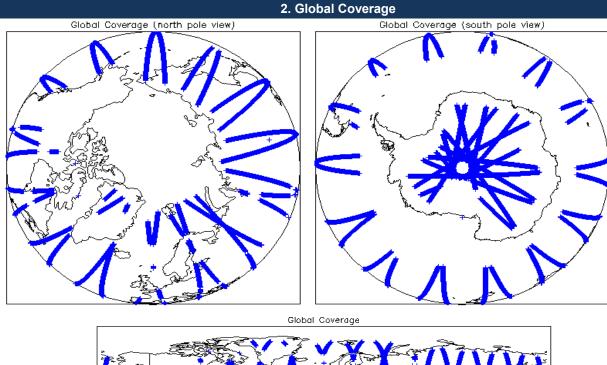
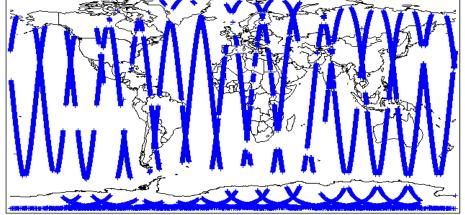
CRYDSAT	IDEAS Daily Report for NR		NRT data:	<u>20-Aug-2013</u>	IDEAS 9
			1. 0	verview	
				Check	Status
			Sen	ver check: science-pds.cryosat.esa.int	Nominal
			Se	ver check: calval-pds.cryosat.esa.int	Nominal
				Product Software Check	Nominal
Report Produc	tion Data:	21-Aug-2013		Product Format Check	Nominal
Report Floud	don Date.			Product Header Analysis	Nominal
Data Us	od:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data		Auxiliary Data File Usage	Nominal
Data 05	eu.			Correction Error Flags	Nominal
				Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8
Mission / Instrume	ent News				
19-Aug-2013 N	lone				
20-Aug-2013	lone				
21-Aug-2013 N	lothing planned	t			





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 Auxil	iary Data Eiles 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 '	11) for each measurement record. The bit va	ue of this flag indicates any problems when set.	
Number of products with errors: 0			
5. Level	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 (.H	DR) 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 S Number of products with errors: 0	PH in order to identify any inconsistencies ar	d/or 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 Auxil	ary 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-stat	ion processing chain as missing or containing	g errors.	
Number of products with errors: 0			
5.5 L1B FDM Measurement Confidence Flags			
CryoSat L1B data includes a measurement confidence flag word (field 14) for eac	h measurement record. The bit value of this	flag indicates any problems when set.	
Number of products with errors: 6			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_1B_20130820T064430_20130820T065208_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo	
CS_OFFL_SIR_FDM_1B_20130820T081205_20130820T083135_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo	
CS_OFFL_SIR_FDM_1B_20130820T120152_20130820T120240_B001	Cal1 correction from IPF DB	The Cal1 correction has been taken from the IPF DB and not the calibration product.	
CS_OFFL_SIR_FDM_1B_20130820T132240_20130820T132502_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20130820T150122_20130820T150244_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20130820T175157_20130820T182434_B001	Attitude correction missing	The attitude has not been corrected	
6. Level	2 FDM Data Quality Chec	k	
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:

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_220130820T064430_20130820T065208_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130820T081205_20130820T083135_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130820T120403_20130820T120838_B001	Call from IPE DB	The Cal1 correction has been taken from the IPF DB and not the calibration product.
CS_OFFL_SIR_FDM_220130820T132240_20130820T132502_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130820T150122_20130820T150244_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130820T175157_20130820T182434_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_220130820T043633_20130820T045741_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_220130820T061605_20130820T064040_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_220130820T104735_20130820T105817_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. 6

0

2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130820T025826_20130820T032959_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_220130820T043633_20130820T045741_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_220130820T081205_20130820T083135_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_220130820T104735_20130820T105817_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_220130820T184857_20130820T191345_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_220130820T201700_20130820T203607_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	138	94	44	0
SIR_FDM_2	137	138	0	138	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_20130819T235431_20130820T000547_B001

CS_OFFL_SIR_FDM_2__20130819T235431_20130820T000547_B001