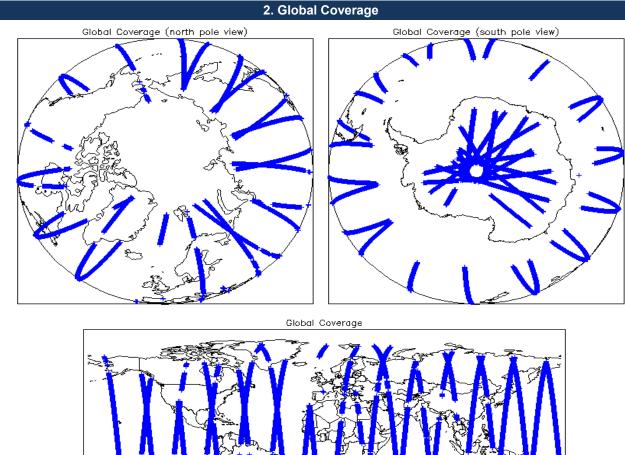


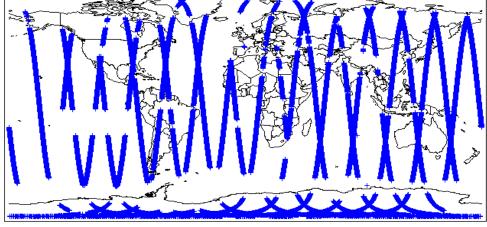
## IDEAS+ Daily Report for NRT data:

### <u>04/08/2014</u>

Demant Draduation Dates	05-Aug-2014	Check	Status	
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal	
Dete Head	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal	
Data Used:	(FDM), and CAL Data	Product Software Check	Nominal	
		Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage	Nominal	
		Correction Error Flags	Nominal	
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6, 6.7 and 6.8	

Mission / Instru	Mission / Instrument News		
03-Aug-2014	None		
04-Aug-2014	None		
05-Aug-2014	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 & 2	

## 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.

0

4.3 L1 CAL Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors wrt a pre-determine Number of products with errors: 0	ed baseline and also to check the validity	of Auxiliary 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 (fie	eld 11) for each measurement record. The	e bit value of this flag indicates any problems when set.			
Number of products with errors: 0					
5. Le	vel 1B FDM Data Quality	y Check			
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 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	nd SPH in order to identify any inconsister	ncies and/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-determine	ed 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 corrections flagged by the ground-	station processing chain as missing or co	ontaining 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 Number of products with errors: 8	each measurement record. The bit value	or this flag indicates any problems when set.			
Product CS_OFFL_SIR_FDM_1B_20140804T021435_20140804T021648_B001	Test Failed           Attitude correction missing	Description The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20140804T052105_20140804T053155_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_1B_20140804T072631_20140804T073328_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_1B_20140804T105607_20140804T111636_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_1B_20140804T184013_20140804T184448_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_1B_20140804T184556_20140804T184613_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20140804T202225_20140804T202229_B001	Attitude correction missing	The attitude has not been corrected			
	Attitude correction missing evel 2 FDM Data Quality				
6. Lo	evel 2 FDM Data Quality	<sup>v</sup> Check			
6. Lo 6.1 L2 FDM Product Format Check	evel 2 FDM Data Quality	<sup>v</sup> Check			
6. Lo 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to	evel 2 FDM Data Quality	<sup>v</sup> Check			
6. Lo         6.1 L2 FDM Product Format Check         Each product, retrieved and unpacked from the science server, is checked to         Number of products with errors:       0	evel 2 FDM Data Quality	r file (.HDR) and a binary product file (.DBL)			
6. Lo     6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to 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 ar Currently there is a high number of processing error flags set within the Level 3	evel 2 FDM Data Quality ensure it consists of both an XML header nd SPH in order to identify any inconsister 2 FDM products (Product_Err and L2_Prr 'hey are set by the FDM processor when	The check The (.HDR) and a binary product file (.DBL) Incies and/or errors raised by the processing chain. Doc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field an error is detected during the L2 processing and also when the percentage of			
6. L	evel 2 FDM Data Quality ensure it consists of both an XML header nd SPH in order to identify any inconsister 2 FDM products (Product_Err and L2_Prr 'hey are set by the FDM processor when	The check The (.HDR) and a binary product file (.DBL) Incies and/or errors raised by the processing chain. Doc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field an error is detected during the L2 processing and also when the percentage of			

### 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

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: 8		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140804T021435_20140804T021648_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140804T052105_20140804T053155_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140804T072631_20140804T073328_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140804T105607_20140804T111636_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140804T131403_20140804T134955_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140804T184013_20140804T184448_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140804T184556_20140804T184613_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140804T202225_20140804T202229_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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140804T083135_20140804T084842_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_220140804T140137_20140804T142046_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_220140804T161446_20140804T161559_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_220140804T174531_20140804T175626_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 I	products with errors:	1

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140804T204227_20140804T205829_B001		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.

#### 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.

10

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140804T083135_20140804T084842_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_220140804T121913_20140804T122138_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_220140804T131403_20140804T134955_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_220140804T140137_20140804T142046_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_220140804T145257_20140804T150750_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_220140804T154117_20140804T155835_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_220140804T161446_20140804T161559_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_220140804T172111_20140804T172329_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_220140804T174531_20140804T175626_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_220140804T195131_20140804T201932_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	0	0					
SIR_FDM_2	115	0	0	0	0		
7.1 QCC Errors							
Number of QCC reports with errors: 0							
7.2 Missing QCC Reports							
Number of products with missing	g QCC reports: All						