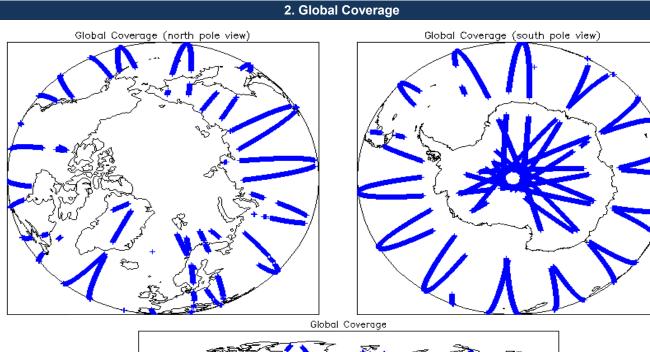


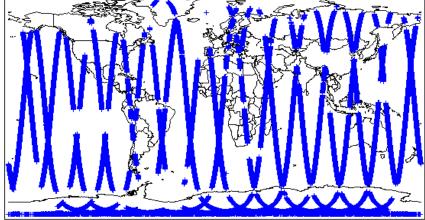
IDEAS+ Daily Report for NRT data:

<u>27/02/2015</u>

Demant Draduation Dates	02-Mar-2015	Check	Status	
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	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 / Instrument News					
26-Feb-2015	None				
27-Feb-2015	None				
28-Feb-2015	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.

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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.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field Number of products with errors: 0	eld 11) for each measurement record. The	e bit value of this flag indicates any problems when set.
5. Le	vel 1B FDM Data Qualit	y Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to Number of products with errors: 0	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.2 L1B FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH an Number of products with errors: 0	nd SPH in order to identify any inconsister	ncies and/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-determine Number of products with errors: 0	ed baseline and also to check the validity	of Auxiliary Data Files is correct.
5.4 L1B FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground- Number of products with errors: 0	station processing chain as missing or co	ontaining 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.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150227T084534_20150227T084540_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150227T115945_20150227T120029_B001 CS_OFFL_SIR_FDM_1B_20150227T163005_20150227T164301_B001	Attitude correction missing Echo error	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. L	evel 2 FDM Data Quality	Check
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	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL)
6.2 L2 FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH ar	nd SPH in order to identify any inconsister	ncies and/or errors raised by the processing chain.
	hey are set by the FDM processor when	oc_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 tity set to 5%).
This issue is under investigation. Number of products with errors: 0		
6.3 L2 FDM Auxiliary 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		
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 co	ontaining errors.
Number of products with errors: 0		
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurer	nent record. The bit value of this flag is a	n assessment of the measurement quality by the processing chain.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150227T084534_20150227T084540_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150227T115945_20150227T120029_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150227T163005_20150227T164301_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.

Number of products with errors:	3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150227T050946_20150227T051906_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_220150227T164515_20150227T165700_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_220150227T230211_20150227T233703_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.

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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150227T204656_20150227T211027_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.

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.

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roducts with errors:	Number of
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150227T005136_20150227T005423_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_220150227T023151_20150227T025447_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_220150227T042134_20150227T043535_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_220150227T050946_20150227T051906_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_220150227T155445_20150227T161229_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_220150227T164515_20150227T165700_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_220150227T230211_20150227T233703_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	166	0	0	0	0	
SIR_FDM_2	163	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 QCC reports: All						