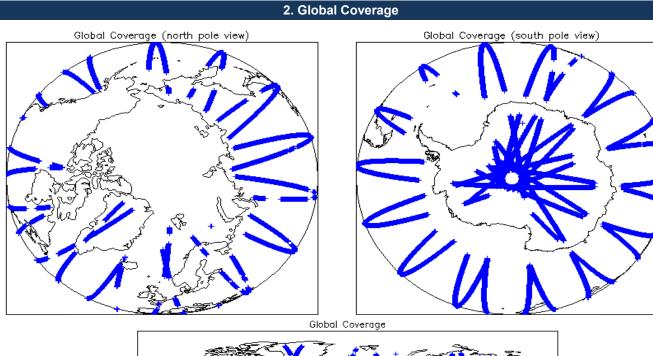


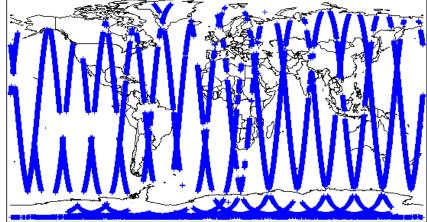
IDEAS+ Daily Report for NRT data:

<u>02/03/2015</u>

Report Production Date:	03-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 Useu.	(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				
01-Mar-2015	None			
02-Mar-2015	None			
03-Mar-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.

0

4.3 L1 CAL 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						
4.4 L1 CAL Measurement Confidence Flags						
CruoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) for each measurement record. Th	e hit value of this flag indicates any problems when set				
Number of products with errors: 0	CryoSat Cal1 and Cal2 data includes a measurement 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. La	evel 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	o ensure it consists of both an XML heade	r 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 a	and SPH in order to identify any inconsiste	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-determin	ned baseline and also to check the validity	of Auxiliary Data Files is correct.				
Number of products with errors: 0						
5.4 L1B FDM Correction Error Flags						
Each product is checked to detect auxiliary corrections flagged by the ground	d-station processing chain as missing or c	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	r each measurement record. The bit value	of this flag indicates any problems when set.				
Number of products with errors: 7						
Product	Test Failed	Description				
CS_OFFL_SIR_FDM_1B_20150302T081641_20150302T082558_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo				
CS_OFFL_SIR_FDM_1B_20150302T092437_20150302T092956_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150302T110621_20150302T110723_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150302T112638_20150302T120144_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo				
CS_OFFL_SIR_FDM_1B_20150302T124528_20150302T124649_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150302T142700_20150302T142833_B001	Attitude correction missing	The attitude has not been corrected				
CS_OFFL_SIR_FDM_1B_20150302T162847_20150302T164043_B001	Echo error	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	o ensure it consists of both an XML heade	r 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 a	and SPH in order to identify any inconsiste	ncies and/or errors raised by the processing chain.				
	They are set by the FDM processor when	roc_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 ntly 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-determined 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 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: 6					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220150302T081641_20150302T082558_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_220150302T092437_20150302T092956_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150302T110621_20150302T110723_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150302T124528_20150302T124649_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150302T142700_20150302T142833_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150302T162847_20150302T164043_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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150302T030918_20150302T031609_B001		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_220150302T083128_20150302T084330_B001		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_220150302T212635_20150302T215630_B001		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_220150302T230619_20150302T231046_B001	0 0	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

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150302T182210_20150302T183715_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.

6

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150302T030918_20150302T031609_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_220150302T035843_20150302T043208_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_220150302T053759_20150302T055302_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_220150302T083128_20150302T084330_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_220150302T140806_20150302T142045_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_220150302T173114_20150302T174235_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	168	0	0	0	0	
SIR_FDM_2	168	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						