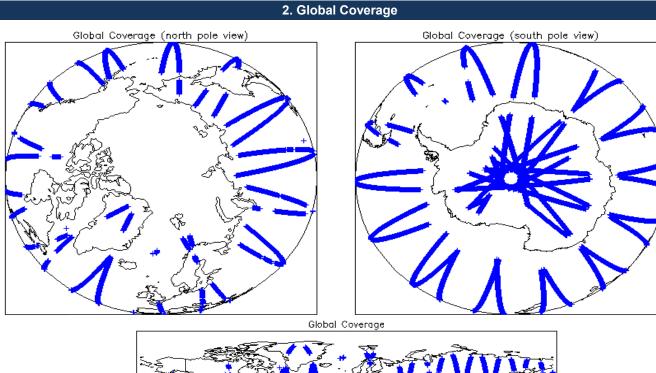


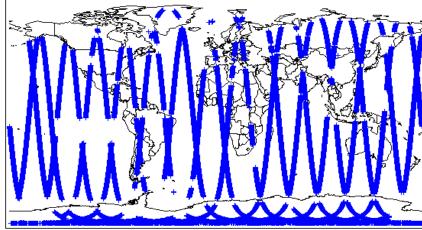
IDEAS+ Daily Report for NRT data:

<u>17/02/2015</u>

enert Breduction Date	18-Feb-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		
16-Feb-2015	None	
17-Feb-2015	None	
18-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.

0

4.3 L1 CAL Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors wrt a pre-det	ermined 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 w	ord (field 11) for each measurement record. The	e bit value of this flag indicates any problems when set.		
Number of products with errors: 0		· · · · · · · · · · · · · · · · · · ·		
5	. Level 1B FDM Data Quality	y Check		
5.1 L1B FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is chec	ked 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 N	IPH and 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-del	ermined 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 g	round-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 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_20150217T085820_20150217T085830_B00	1 Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150217T103433_20150217T103444_B00	1 Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150217T121108_20150217T121128_B00	-	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150217T121130_20150217T121242_B00	· · · ·	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150217T145857_20150217T153511_B00	1 Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_1B_20150217T160910_20150217T162445_B00		The Echo Rx1 Error flag is set, indicating a degraded raw echo		
CS_OFFL_SIR_FDM_1B_20150217T205606_20150217T210032_B00	1 Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
	6. Level 2 FDM Data Quality	Check		
6.1 L2 FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is chec	ked 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 N	IPH and SPH in order to identify any inconsister	ncies and/or errors raised by the processing chain.		
	#33). They are set by the FDM processor when	cc_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-det	ermined 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_220150217T085820_20150217T085830_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150217T103433_20150217T103444_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150217T121130_20150217T121242_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150217T145857_20150217T153511_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150217T160910_20150217T162445_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_220150217T205606_20150217T210032_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.

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150217T014447_20150217T021946_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_220150217T145857_20150217T153511_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_220150217T223445_20150217T230210_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

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150217T141124_20150217T144518_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.

0

All

6

Number o	f products	with errors:	
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150217T014447_20150217T021946_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_220150217T145857_20150217T153511_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_220150217T173636_20150217T174615_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_220150217T174818_20150217T180346_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_220150217T201959_20150217T203056_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_220150217T223445_20150217T230210_B001		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	169	0	0	0	0
SIR_FDM_2	167	0	0	0	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: