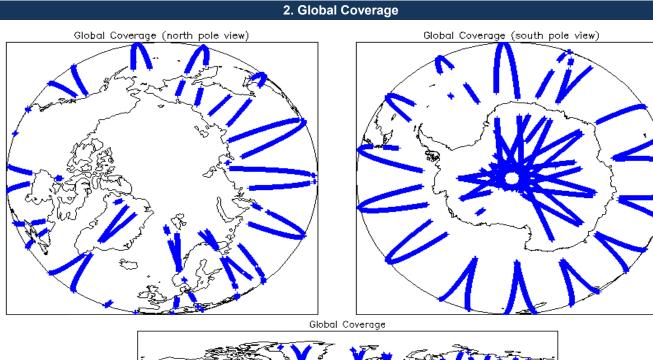


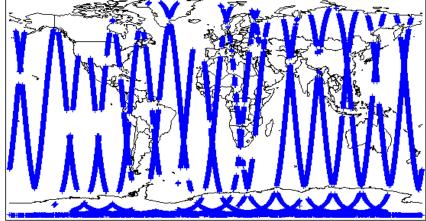
IDEAS+ Daily Report for NRT data:

<u>14/02/2015</u>

1. Overview						
Concret Braduction Data	16-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			
	(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 and 6.8			

Mission / Instrument News			
13-Feb-2015	None		
14-Feb-2015	None		
15-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-determine	ed baseline and also to check the validity	of Auvilian/ Data Files is correct
Number of products with errors: 0	eu baseline anu also to check the valuity	
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (fi	eld 11) for each measurement record. Th	e bit value of this flag indicates any problems when set.
Number of products with errors: 0		
5. Le	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	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	nd 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-determine	ad baseline and also to check the validity	of Auvilian/ Data Files is correct
Number of products with errors: 0	eu baseline anu also to check the validity	
5.4 L1B 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		
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for	each measurement record. The hit value	of this flag indicates any problems when set
Number of products with errors: 6		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150214T002835_20150214T003218_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150214T094334_20150214T095015_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150214T112606_20150214T112713_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150214T130543_20150214T130609_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150214T162920_20150214T163059_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150214T232600_20150214T233256_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6.1	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	ensure it consists of both an XML heade	r file (HDR) and a binary product file (DBI)
Number of products with errors: 0	Should in contribute of both an Ame Heade	
6.2 L2 FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH at	nd SPH in order to identify any inconsister	ncies and/or errors raised by the processing chain.
	They are set by the FDM processor when	coc_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:

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: 6		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150214T002835_20150214T003218_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150214T094334_20150214T095015_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150214T112606_20150214T112713_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150214T130543_20150214T130609_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150214T162920_20150214T163059_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150214T232600_20150214T233256_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.

1

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150214T033445_20150214T040016_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: 0

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.

Number of products with errors: 6		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150214T023813_20150214T031115_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_220150214T033445_20150214T040016_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_220150214T041821_20150214T043411_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_220150214T091552_20150214T094204_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_220150214T192825_20150214T193420_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_220150214T233333_20150214T234351_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	167	0	0	0	0
SIR_FDM_2	165	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					