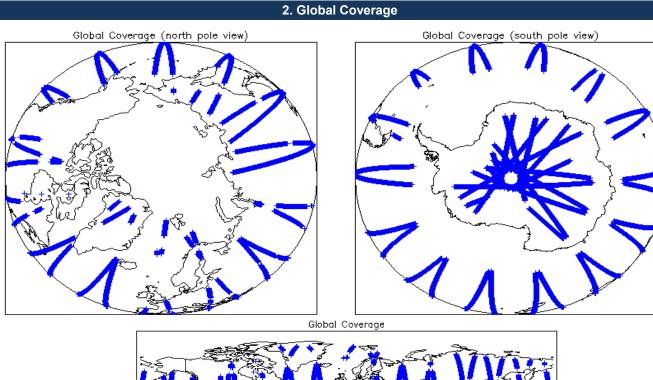


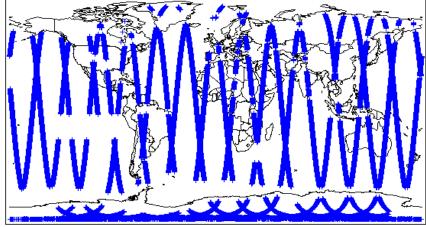
IDEAS+ Daily Report for NRT data:

<u>15/12/2014</u>

Report Production Date:	16-Dec-2014	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Dete Heads	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, 6.7 and 6.8	

Mission / Instru	iment News
14-Dec-2014	None
15-Dec-2014	None
16-Dec-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

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 ba Number of products with errors: 0	aseline and also to check the validity of Aux	kiliary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 1 Number of products with errors: 0	1) for each measurement record. The bit v	alue of this flag indicates any problems when set.
5. Leve	I 1B FDM Data Quality C	heck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	ure it consists of both an XML beader 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 SP Number of products with errors: 0	PH in order to identify any inconsistencies	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-determined ba	aseline and also to check the validity of Au	xiliary 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 Number of products with errors: 0	on processing chain as missing or containi	ng errors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each Number of products with errors: 3	n measurement record. The bit value of this	s flag indicates any problems when set.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20141215T133010_20141215T133227_B001 CS_OFFL_SIR_FDM_1B_20141215T150849_20141215T151010_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141215T175907_20141215T183201_B001	Attitude correction missing	The attitude has not been corrected
6. Leve	el 2 FDM Data Quality Ch	leck
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	ure 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 MPH and SP	PH in order to identify any inconsistencies	and/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 FD #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They Data Set Records free of processing errors is below the minimum acceptable three	are set by the FDM processor when an en	ror is detected during the L2 processing and also when the percentage of
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 ba Number of products with errors: 0	aseline and also to check the validity of Aux	iliary Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-static Number of products with errors: 0	on processing chain as missing or containi	ng errors.
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement Number of products with errors: 3	record. The bit value of this flag is an asse	essment of the measurement quality by the processing chain.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141215T133010_20141215T133227_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_2_20141215T150849_20141215T151010_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141215T175907_20141215T183201_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.

Number of products with errors: 0

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: 3			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_220141215T041256_20141215T042659_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.	
CS_OFFL_SIR_FDM_220141215T044322_20141215T050509_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.	
CS_OFFL_SIR_FDM_220141215T195354_20141215T201041_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.

3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141215T040109_20141215T040400_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_220141215T185024_20141215T192146_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_220141215T211648_20141215T212147_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	156	0	0	0	0
SIR_FDM_2	155	0	0	0	0
1 QCC Errors					
umber of QCC reports with er	rors:	0			
2 Missing QCC Repo	orts				
umber of products with missi	ng QCC reports:	All			