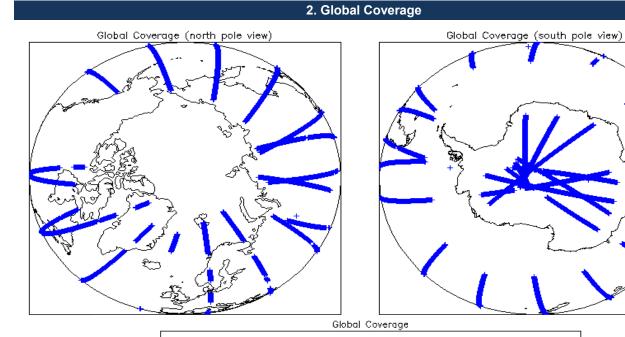


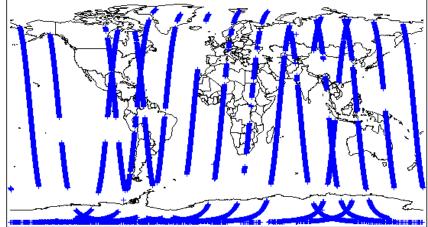
IDEAS+ Daily Report for NRT data:

<u>13/10/2014</u>

Report Production Date:	16-Oct-2014	Check	Status	
		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 and 6.8	

м	Mission / Instrument News					
	12-Oct-2014	None				
	13-Oct-2014	None				
	14-Oct-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 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 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 1 0/01	1B FDM Data Quality Ch	aack			
5.1 L1B FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensur Number of products with errors: 0	e it consists of both an XML header file (.F	IDR) 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 and SP Number of products with errors: 0	H in order to identify any inconsistencies a	nd/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 bas Number of products with errors: 0	eline and also to check the validity of Auxi	liary Data Files is correct.			
5.4 L1B Correction Error Flags					
Each product is checked to detect auxiliary corrections flagged by the ground-statio Number of products with errors: 0	n processing chain as missing or containin	g 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: 2					
Product CS_OFFL_SIR_FDM_1B_20141013T060049_20141013T060333_B001	Test Failed Echo error	Description The Echo Rx1 Error flag is set, indicating a degraded raw echo			
CS_OFFL_SIR_FDM_1B_20141013T153506_20141013T154055_B001	Attitude correction missing	The attitude has not been corrected			
6 Lovo	I 2 FDM Data Quality Cho				
		GUN			
6.1 L2 FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensur Number of products with errors: 0	e it consists of both an XML header file (.F	IDR) 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 and SP	H in order to identify any inconsistencies a	nd/or errors raised by the processing chain.			
Currently there is a high number of processing error flags set within the Level 2 FDM products (Product_Err and L2_Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are set by the FDM processor when an error is detected during the L2 processing and also when the percentage of Data Set Records free of processing errors is below the minimum acceptable threshold set within the processor (currently 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. 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 measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chain.					
Number of products with errors: 2					
	Test Failed	Description			
CS_OFFL_SIR_FDM_2_20141013T060049_20141013T060333_B001 Echo error The Echo Rx1 Error flag is set, indicating a degraded raw echo CS_OFFL_SIR_FDM_2_20141013T153506_20141013T154055_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.

0

Number of products with errors:

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 Geophysic	al Measurement Flags	i				
Each product is checked to detec	t geophysical measurements flag	ged by the processing chain as m	issing or containing errors.			
Number of products with error		5				
Product		Test Failed	Descrip	otion		
CS_OFFL_SIR_FDM_220141013T003137_20141013T004538_B001		B001 Ocean Retracki		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_2201410	013T060635_20141013T061103_	B001 Ocean Retracki		y 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	95	0	0	0	0	
SIR_FDM_2	84	0	0	0	0	

	04	0	U	0	0
7.1 QCC Errors					
Number of QCC reports with errors:	0				
7.2 Missing QCC Reports					
Number of products with missing QCC rep	orts: All				