

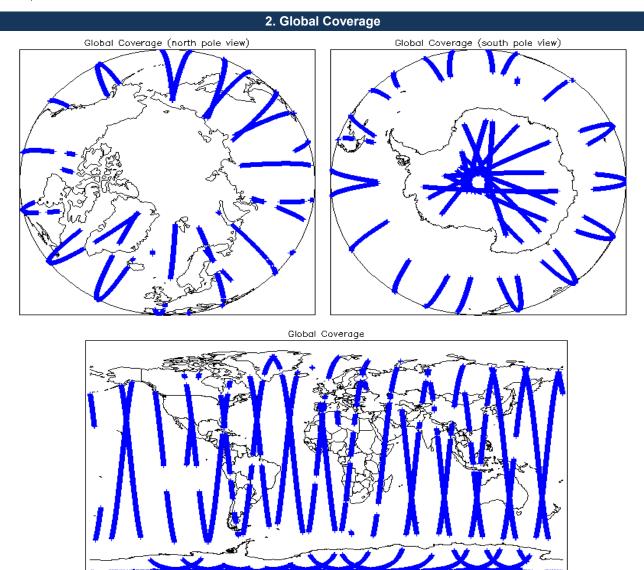
IDEAS+ Daily Report for NRT data:

<u>17/07/2014</u>



Demant Draduction Date:	18-Jul-2014	Check	Status	
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal	
Data Used:	L1 and L2 Fast Delivery Marine Mode (FDM), and CAL Data	Server check: calval-pds.cryosat.esa.int	Nominal	
Data Used:		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 / Instru	Mission / Instrument News		
16-Jul-2014	None		
17-Jul-2014	None		
18-Jul-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, 2 & 3

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) Number of products with errors: 0) for each measurement record. The bit va	lue of this flag indicates any problems when set.		
5. Level	1B FDM Data Quality Ch	neck		
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 (.h	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 SPI 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-station Number of products with errors: 0	n processing chain as missing or containir	ig errors.		
5.5 L1B FDM Measurement Confidence Flags				
CryoSat L1B data includes a measurement confidence flag word (field 14) for each in Number of products with errors: 1	measurement record. The bit value of this	flag indicates any problems when set.		
Product CS_OFFL_SIR_FDM_1B_20140717T222329_20140717T222508_B001	Test Failed Echo error	Description The Echo Rx1 Error flag is set, indicating a degraded raw echo		
6. Leve	I 2 FDM Data Quality Ch	eck		
6.1 L2 FDM Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure Number of products with errors: 0	e it consists of both an XML header file (.h	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 SPI	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 FDN #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They a Data Set Records free of processing errors is below the minimum acceptable thresh	re set by the FDM processor when an error	or 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 bas Number of products with errors: 0	eline and also to check the validity of Auxi	liary Data Files is correct.		
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 measur	rement record. The bit value of this flag is	an assessment of the measurement quality by the processing chain.		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220140717T222329_20140717T222508_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 on Number of products with errors: 2	chain as missing or containing errors.			
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220140717T125312_20140717T130619_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. The master fail flag is set by the OCOG call, for one or more records,		
CS_OFFL_SIR_FDM_220140717T165420_20140717T170813_B001	OCOG Retracked Range Flag	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_220140717T153054_20140717T155111_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.

All

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140717T054300_20140717T054955_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_220140717T092455_20140717T093002_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_220140717T111403_20140717T111614_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_220140717T125312_20140717T130619_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_220140717T153054_20140717T155111_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_220140717T165420_20140717T170813_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_220140717T174641_20140717T175352_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	114	0	0	0	0
SIR_FDM_2	112	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with err	rors:	0			

7.2 Missing QCC Reports

Number of products with missing QCC reports: