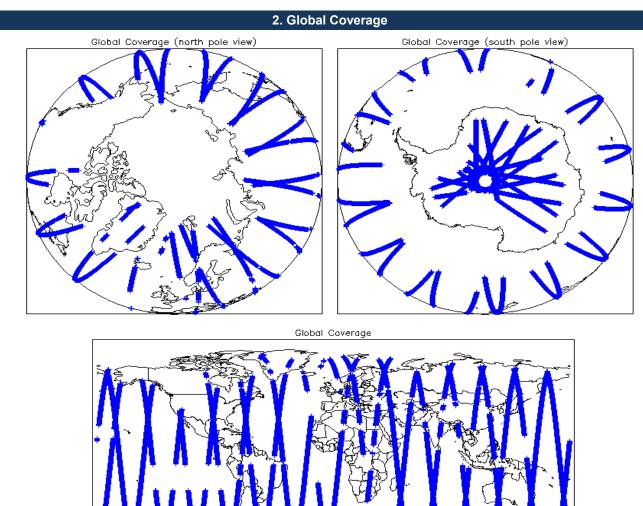


IDEAS+ Daily Report for NRT data:

20/07/2014

Report Production Date:	21-Jul-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, 6.6 and 6.8	

Mission / Instrument News				
19-Jul-2014	None			
20-Jul-2014	None			
21-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

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							
	essions and also to shock the validity of A	uviliaru Data Eiloa ja eorreet					
Each product is checked for missing Data Set Descriptors wrt a pre-determined b Number of products with errors: 0	aseline and also to check the validity of A						
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. Leve	el 1B FDM Data Quality (Check					
5.1 L1B FDM Product Format Check							
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both on VML booder file	(HDD) and a binany product file (DDL)					
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 \ensuremath{S}	SPH in order to identify any inconsistencies	s 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-determined b	aseline and also to check the validity of A	uxiliary 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-stal	tion processing chain as missing or contai	ning errors.					
Number of products with errors: 0	···· p·······						
5.5 L1B FDM Measurement Confidence Flags							
CryoSat L1B data includes a measurement confidence flag word (field 14) for each	ch measurement record. The bit value of th	nis flag indicates any problems when set.					
Number of products with errors: 7							
Product	Test Failed	Description					
CS_OFFL_SIR_FDM_1B_20140720T013857_20140720T014123_B001	Attitude correction missing Echo error	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo					
CS_OFFL_SIR_FDM_1B_20140720T025003_20140720T030231_B001 CS_OFFL_SIR_FDM_1B_20140720T062059_20140720T063808_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo					
CS_OFFL_SIR_FDM_1B_20140720T194726_20140720T195315_B001	Attitude correction missing	S_OFFL_SIR_FDM_1B_20140720T142145_20140720T143829_B001 Echo error The Echo Rx1 Error flag is set, indicating a degraded raw echo					
		The attitude has not been corrected					
CS OFFL SIR FDM 1B 20140720T230753 20140720T230823 B001	-	The attitude has not been corrected The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20140720T230753_20140720T230823_B001 CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error						
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error el 2 FDM Data Quality C	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check	Attitude correction missing Echo error el 2 FDM Data Quality C	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens	Attitude correction missing Echo error el 2 FDM Data Quality C	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL)					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens Number of products with errors: 0 6.2 L2 FDM Product Header Analysis	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file SPH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an e	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field rror is detected during the L2 processing and also when the percentage of					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file SPH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an e	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field rror is detected during the L2 processing and also when the percentage of					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens 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 S Currently there is a high number of processing error flags set within the Level 2 Fi #29) and also within the L2 Product flies (MPH field #35 and SPH field #33). They Data Set Records free of processing errors is below the minimum acceptable three	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file SPH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an e	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field rror is detected during the L2 processing and also when the percentage of					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens 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 S Currently there is a high number of processing error flags set within the Level 2 F #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 This issue is under investigation.	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file SPH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an e	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field rror is detected during the L2 processing and also when the percentage of					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file PH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an eshold set within the processor (currently s	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field error is detected during the L2 processing and also when the percentage of set to 5%).					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file PH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an eshold set within the processor (currently s	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field error is detected during the L2 processing and also when the percentage of set to 5%).					
CS_OFFL_SIR_FDM_1B_20140720T230823_20140720T231220_B001 6. Lev 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens 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 S Currently there is a high number of processing error flags set within the Level 2 FI #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 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 b	Attitude correction missing Echo error el 2 FDM Data Quality C sure it consists of both an XML header file PH in order to identify any inconsistencies DM products (Product_Err and L2_Proc_F y are set by the FDM processor when an eshold set within the processor (currently s	The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo heck (.HDR) and a binary product file (.DBL) s and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH field error is detected during the L2 processing and also when the percentage of set to 5%).					

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: /	Number of products with errors:	7
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140720T013857_20140720T014123_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140720T025003_20140720T030231_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140720T062059_20140720T063808_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140720T142145_20140720T143829_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140720T194726_20140720T195315_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140720T230753_20140720T230823_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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140720T092343_20140720T093357_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_220140720T142145_20140720T143829_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_220140720T152924_20140720T154344_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_220140720T223812_20140720T224234_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: 10		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140720T033416_20140720T035324_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_220140720T080013_20140720T081134_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_220140720T092343_20140720T093357_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_220140720T100909_20140720T101555_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_220140720T104549_20140720T104643_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_220140720T142145_20140720T143829_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_220140720T152924_20140720T154344_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_220140720T164950_20140720T170623_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_220140720T171158_20140720T172029_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_220140720T223812_20140720T224234_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	133	0	0	0	0
SIR_FDM_2	131	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with err	ors:	0			
7.2 Missing QCC Repo	rts				
Number of products with missir		All			
aution of products with missi	ig doc reports.				