

IDEAS+ Daily Report for NRT data:

<u>16/08/2014</u>

See Sections 5.5, 6.5 and 6.8

1. Overview					
Depart Draduction Deter	18 Aug 2014	Check	Status		
Report Production Date:	18-Aug-2014	Server check: science-pds.cryosat.esa.int	Nominal		
Data Usadu	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

Mission / Instrument News			
	15-Aug-2014	None	
	16-Aug-2014	None	
	17-Aug-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 Usa	ae Check					
Each product is checked for missing Data Sat Data	risters wrt e pro determined k	accoling and also to shock the validity of				
Number of products with errors:						
	Ŭ					
4.4 L1 CAL Measurement Confiden	nce Flags					
CryoSat Cal1 and Cal2 data includes a measurement	nt confidence flag word (field	11) for each measurement record. The b	it 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 Chec	:k					
Fach meduat retrieved and upperfect from the acid	nee comion is checked to one	ours it consists of both on VMI, booder fil				
Each product, retrieved and unpacked from the scie			e (.HDR) and a binary product me (.DBL).			
Number of products with errors.	Ū					
5.2 L1B FDM Product Header Analy	ysis					
For all products, a series of pre-defined checks are	carried out on the MPH and S	SPH in order to identify any inconsistenci	es and/or errors raised by the ground-segment processing chain.			
Number of products with errors:	0					
5.3 L1B FDM Auxilary Data File Us	age Check					
Each product is checked for missing Data Set Desc	riptors wrt a pre-determined b	paseline and also to check the validity of	Auxiliary Data Files is correct.			
Number of products with errors:	0					
5.4 L1B Correction Error Flags						
Each product is checked to detect auxiliary correction	one flagged by the ground sta	ation processing chain as missing or cont				
Number of products with errors:						
Number of products with errors.	0					
5.5 L1B FDM Measurement Confide	ence Flags					
CryoSat L1B data includes a measurement confider	nce flag word (field 14) for eac	ch measurement record. The bit value of	this flag indicates any problems when set.			
Number of products with errors:	7	Number of products with errors: 7				
Product		Test Failed	Description			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014	0816T001849_B001	Test Failed Attitude correction missing	Description The attitude has not been corrected			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T030500_2014	0816T001849_B001	Test Failed Attitude correction missing Echo error	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T030500_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014	0816T001849_B001 0816T031915_B001 0816T133510_B001	Test Failed Attitude correction missing Echo error Echo error	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T030500_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T183137_2014	0816T001849_B001 0816T031915_B001 0816T133510_B001 0816T183208_B001	Test Failed Attitude correction missing Echo error Echo error Attitude correction missing Attitude correction missing	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T030500_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T183137_2014 CS_OFFL_SIR_FDM_1B_20140816T183444_2014	0816T001849_B001 0816T031915_B001 0816T133510_B001 0816T183208_B001 0816T183458_B001	Test Failed Attitude correction missing Echo error Echo error Attitude correction missing Attitude correction missing Attitude correction missing	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected The attitude has not been corrected			
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Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T030500_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T133137_2014 CS_OFFL_SIR_FDM_1B_20140816T183434_2014 CS_OFFL_SIR_FDM_1B_20140816T183444_2014 CS_OFFL_SIR_FDM_1B_20140816T214526_2014 CS_OFFL_SIR_FDM_1B_20140816T214554_2014 Each product, retrieved and unpacked from the scient Number of products with errors: 6.2 L2 FDM Product Header Analys For all products, a series of pre-defined checks are Currently there is a high number of processing errors is below This issue is under investigation. Number of products w	00816T001849_B001 00816T031915_B001 00816T133510_B001 00816T183208_B001 00816T183458_B001 00816T214554_B001 00816T215000_B001 6. Lev 6. Lev 6. Lev 7. Comparison of the second second	Test Failed Attitude correction missing Echo error Echo error Attitude correction missing Attitude correction missing Attitude correction missing Echo error rel 2 FDM Data Quality (sure it consists of both an XML header fil SPH in order to identify any inconsistenci DM products (Product_Err and L2_Proc, y are set by the FDM processor when an areshold set within the processor (currently	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo Check e (.HDR) and a binary product file (.DBL) es and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH fiel error is detected during the L2 processing and also when the percentage of set to 5%).			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T183444_2014 CS_OFFL_SIR_FDM_1B_20140816T214526_2014 CS_OFFL_SIR_FDM_1B_20140816T214554_2014 CS_OFFL_SIR_FDM_1B_20140816T214526_2014 CS_OFFL_SIR_FDM_1B_20140816T214526_2014 CS_OFFL_SIR_FDM_1B_20140816112042 CS_OFFL_SIR_FDM_1B_20140 CS_OFFL_SIR_FDM_1B_20140 CS_OFFL_SIR_FDM_1B_2014 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SIR_FDM_1B_20 CS_OFFL_SI	0 0816T001849_B001 00816T031915_B001 00816T133510_B001 00816T183208_B001 00816T183458_B001 00816T214554_B001 00816T215000_B001 00816T215000_B001 00816T215000_B001 00816T215000_B001 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Failed Attitude correction missing Echo error Echo error Attitude correction missing Attitude correction missing Attitude correction missing Echo error Yel 2 FDM Data Quality (sure it consists of both an XML header fil SPH in order to identify any inconsistenci DM products (Product_Err and L2_Proc, y are set by the FDM processor when an eshold set within the processor (currently paseline and also to check the validity of	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo Check e (.HDR) and a binary product file (.DBL) es and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH fiel error is detected during the L2 processing and also when the percentage of set to 5%). Auxiliary Data Files is correct.			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T1330500_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T183137_2014 CS_OFFL_SIR_FDM_1B_20140816T183444_2014 CS_OFFL_SIR_FDM_1B_20140816T214554_2014 CS_OFFL_SIR_FDM_1B_201408167182 CUITENTY THE IS A high number of processing errors is below This issue is under investigation. Number of products with errors: C3.12 FDM Auxiliary Data File Usa Each product is checked for missing Data Set Desc Number of products with errors: CINC_FSIR_FSIR_FSIR_FSIR_FSIR_FSIR_FSIR_FSIR	0816T001849_8001 0816T031915_8001 0816T133510_8001 0816T183208_8001 0816T183458_8001 0816T183458_8001 0816T183458_8001 0816T214554_8001 0816T214554_8001 0 6. Lev carried out on the MPH and S flags set within the Level 2 F #35 and SPH field #33). They v the minimum acceptable three 0 ge Check riptors wrt a pre-determined b 0	Test Failed Attitude correction missing Echo error Echo error Attitude correction missing Attitude correction missing Attitude correction missing Echo error Yel 2 FDM Data Quality (sure it consists of both an XML header fill SPH in order to identify any inconsistenci DM products (Product_Err and L2_Proc. y are set by the FDM processor when an asshold set within the processor (currently paseline and also to check the validity of	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo Check e (.HDR) and a binary product file (.DBL) es and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH fiel error is detected during the L2 processing and also when the percentage of set to 5%). Auxiliary Data Files is correct.			
Product CS_OFFL_SIR_FDM_1B_20140816T001729_2014 CS_OFFL_SIR_FDM_1B_20140816T030500_2014 CS_OFFL_SIR_FDM_1B_20140816T132043_2014 CS_OFFL_SIR_FDM_1B_20140816T183434_2014 CS_OFFL_SIR_FDM_1B_20140816T214526_2014 CS_OFFL_SIR_FDM_1B_20140816T214554_2014 CS_OFFL_SIR_FDM_1B_20140816T2145100. Number of products with errors: CI_SAL2 FDM Auxiliary Data File Usa Each product is checked for missing Data Set Desc Number of products with errors: CSAL2 FDM Correction Error Elaco	00816T001849_B001 00816T031915_B001 00816T133510_B001 00816T183208_B001 00816T183458_B001 00816T214554_B001 00816T215000_B001 00816T215000_B001 00 6. Lev 0 5. 5. 5. 6. 6. 7. 7. 7. 8. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9	Test Failed Attitude correction missing Echo error Echo error Attitude correction missing Attitude correction missing Attitude correction missing Echo error rel 2 FDM Data Quality (sure it consists of both an XML header fil SPH in order to identify any inconsistenci DM products (Product_Err and L2_Proc, y are set by the FDM processor when an asshold set within the processor (currently baseline and also to check the validity of	Description The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected The Echo Rx1 Error flag is set, indicating a degraded raw echo Check e (.HDR) and a binary product file (.DBL) es and/or errors raised by the processing chain. Flag). These flags are set within L2 Header files (MPH field #19 and SPH fiel error is detected during the L2 processing and also when the percentage of set to 5%). Auxiliary Data Files is correct.			

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.

lumber of products with errors: 7				
Product	Test Failed	Description		
CS_OFFL_SIR_FDM_220140816T001729_20140816T001849_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220140816T030500_20140816T031915_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
CS_OFFL_SIR_FDM_220140816T132043_20140816T133510_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo		
CS_OFFL_SIR_FDM_220140816T183137_20140816T183208_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220140816T183444_20140816T183458_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220140816T214526_20140816T214554_B001	Attitude correction missing	The attitude has not been corrected		
CS_OFFL_SIR_FDM_220140816T214554_20140816T215000_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. 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 Geophysical Measurement Flags

Each product is checked to detect geophysical measurements flagged by the processing chain as missing or containing errors.

All

10

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140816T021148_20140816T023100_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_220140816T032131_20140816T033750_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_220140816T054801_20140816T060400_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_220140816T092323_20140816T092344_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_220140816T120524_20140816T120701_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_220140816T125928_20140816T131322_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_220140816T145509_20140816T150435_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_220140816T175822_20140816T181911_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_220140816T202705_20140816T205840_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_220140816T214554_20140816T215000_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	137	0	0	0	0
SIR_FDM_2	136	0	0	0	0
7.1 QCC Errors					
Number of OCC reports with e	rrors:				

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: