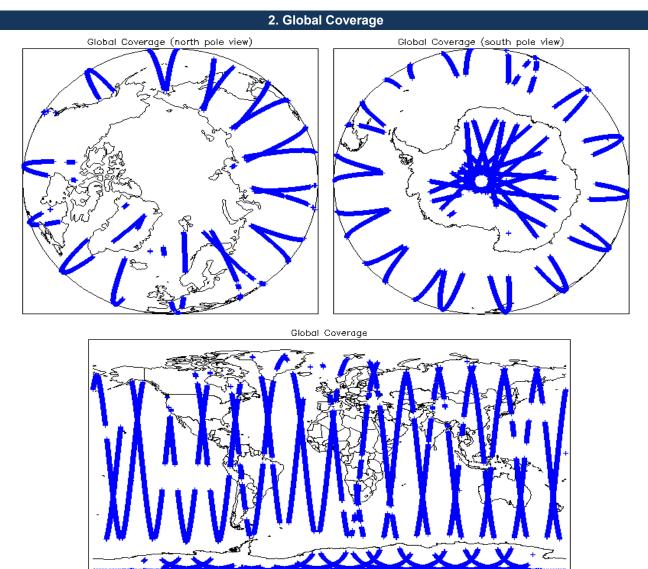


IDEAS+ Daily Report for NRT data:

<u>03/07/2014</u>

Report Production Date:	04-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, 6.7 and 6.8	

Mission / Instru	Mission / Instrument News		
02-Jul-2014	None		
03-Jul-2014	None		
04-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		
Each product is checked for missing Data Set Descriptors wrt a pre-determi	ned baseline and also to check the validity of Auxi	iliary 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 va	lue of this flag indicates any problems when set.
Number of products with errors: 0		
5. L	evel 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	to ensure it consists of both an XML header file (.h	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 SPH in order to identify any inconsistencies a	nd/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-determi	ned baseline and also to check the validity of Auxi	iliary 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 groun Number of products with errors: 0	io-station 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	or each measurement record. The bit value of this	flag indicates any problems when set.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20140703T021915_20140703T025233_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140703T055417_20140703T060712_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20140703T205616_20140703T210256_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140703T210256_20140703T210440_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140703T223851_20140703T223955_B001	Attitude correction missing	The attitude has not been corrected
6.	Level 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 Number of products with errors: 0	to ensure it consists of both an XML header file (.h	HDR) 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		
Currently there is a high number of processing error flags set within the Leve #29) and also within the L2 Product files (MPH field #35 and SPH field #33). Data Set Records free of processing errors is below the minimum acceptable	. They are 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-determi	ned baseline and also to check the validity of Auxi	liary Data Files is correct.
Number of products with errors: 0		
6.4 L2 FDM Correction Error Flags		
· · · · · · · · · · · · · · · · · · ·	d station processing shain as missing as as to but	
Each product is checked to detect auxiliary corrections flagged by the groun Number of products with errors: 0	iu-station processing chain as missing or containir	ig enois.
·		
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz Number of products with errors: 5	measurement record. The bit value of this flag is	an assessment of the measurement quality by the processing chain.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140703T021915_20140703T025233_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140703T055417_20140703T060712_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140703T205616_20140703T210256_B001	Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected

Attitude correction missing

Attitude correction missing

The attitude has not been corrected

The attitude has not been corrected

CS_OFFL_SIR_FDM_2__20140703T210256_20140703T210440_B001

CS_OFFL_SIR_FDM_2__20140703T223851_20140703T223955_B001

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: 3 Test Failed Product Description 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 CS_OFFL_SIR_FDM_2__20140703T012734_20140703T015723_B001 OCOG Retracked Range Flag ignored for these records. The master fail flag is set by the OCOG call, for one or more records, CS_OFFL_SIR_FDM_2__20140703T030534_20140703T031244_B001 OCOG Retracked Range Flag 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_2__20140703T225904_20140703T233223_B001 indicating the values stored in fields #18, #19, #20 and #21 should be OCOG Retracked Range Flag 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	Number of products with errors:	1
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140703T073118_20140703T074832_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.

0

All

Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140703T012734_20140703T015723_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_220140703T030534_20140703T031244_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_220140703T085353_20140703T090502_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_220140703T114622_20140703T115024_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_220140703T225904_20140703T233223_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	135	0	0	0	0
SIR_FDM_2	135	0	0	0	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: