

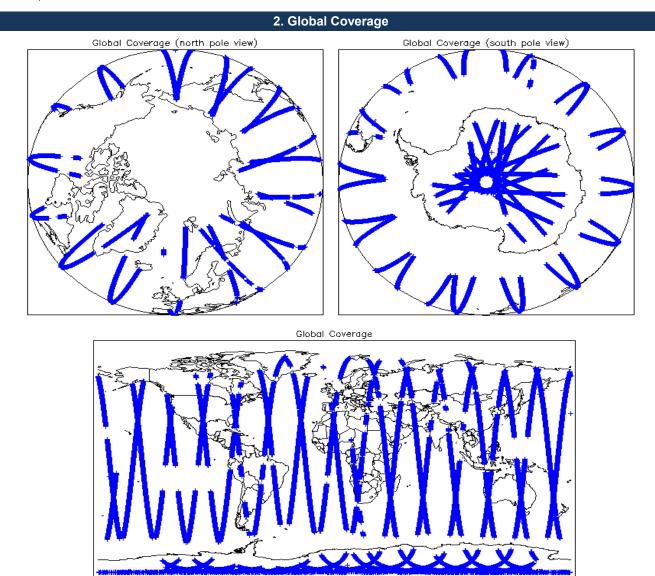
# IDEAS+ Daily Report for NRT data:

# <u>11/07/2014</u>

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1	OVe	rview
	0.0	

Report Production Date:	14-Jul-2014	Check	Status	
		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 and 6.8	

Mission / Instrument News		
10-Jul-2014	None	
11-Jul-2014	None	
12-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-determin	ned baseline and also to check the validi	ty 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 (i	field 11) for each manufament record	The bit value of this flag indicates any problems when act
Number of products with errors: 0	neid 11) für each measurement record.	The bit value of this hay indicates any problems when set.
5. L(	evel 1B FDM Data Qual	ity Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to	o ensure it consists of both an XML hear	der file (.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 a	and SPH in order to identify any inconsis	tencies 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-determin	ned haseline and also to chock the volidi	tv of Auviliary Data Files is correct
Number of products with errors: 0	ica sascinic and also to check the Valia	y or number y Data + 1105 15 001 501.
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground	d-station processing chain as missing or	containing errors.
Number of products with errors: 0		
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) fo	r each measurement record. The bit val	ue of this flag indicates any problems when set.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20140711T053125_20140711T053432_B001	Echo error Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20140711T134743_20140711T141907_B001 CS_OFFL_SIR_FDM_1B_20140711T204937_20140711T205246_B001	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_20140711T222904_20140711T223000_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140711T223051_20140711T223321_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6.1	aval 2 EDM Data Quali	ty Chook
	evel 2 FDM Data Quali	ty check
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	o ensure it consists of both an XML hear	der file (.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 a	and SPH in order to identify any inconsis	tanciae and/or arrors raised by the processing chain
		Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field
	They are set by the FDM processor whe	en an error 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-determin	ned baseline and also to check the validi	ty 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	d-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 the	is flag is an assessment of the measurement quality by the processing chain.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140711T053125_20140711T053432_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_2_20140711T134743_20140711T141907_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140711T204937_20140711T205246_B001	Attitude correction missing	The attitude has not been corrected

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\_2\_\_20140711T222904\_20140711T223000\_B001

CS\_OFFL\_SIR\_FDM\_2\_\_20140711T223051\_20140711T223321\_B001

6.6 L2 FDM Range Mea	surement Flags						
Each product is checked to detect	range measurements flagged by th	e processing chain as missing	or containing errors.				
Number of products with errors	: 1						
Product		Test Failed		Description			
CS_OFFL_SIR_FDM_220140711T211510_20140711T212736_B001		01 OCOG Retrack	OCOG Retracked Range Flag indicatir		aster fail flag is set by the OCOG call, for one or more records, ing the values stored in fields #18, #19, #20 and #21 should be d for these records.		
6.7 L2 FDM SWH and E	Backscatter Measuremei	nt Flags					
Each product is checked to detect	parameters related to SWH and sig	gma0 that are flagged by the p	ocessing chain as missing	or containing err	ors.		
Number of products with errors	: 0						
6.8 L2 FDM Geophysic	al Measurement Flags						
· · · · · ·							
	geophysical measurements flagge	d by the processing chain as m	issing or containing errors.	•			
Number of products with errors	: 3						
Product		Test Failed		Description			
CS_OFFL_SIR_FDM_220140711T011700_20140711T015220_B001		01 Ocean Retracki	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_220140711T055017_20140711T055406_B001		01 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_220140711T211510_20140711T212736_B001		01 Ocean Retracki			The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.		
		7 000	Check				
The QCC is a CryoSat facility that provided below.	performs a primary survey of data p	products immediately after prod	uction by the PDS and LT.	A processing facil	lities. A list of the tests w	which raised errors or warnings is	
Product type	Nb. Products	Nb. QCC Reports	Nb. Valid		Nb. Warnings	Nb. Errors	
SIR_FDM_1B SIR_FDM_2	131 131	0 0	0 0		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:

All