

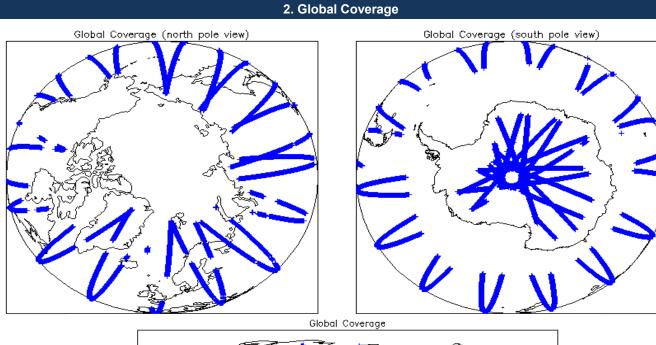
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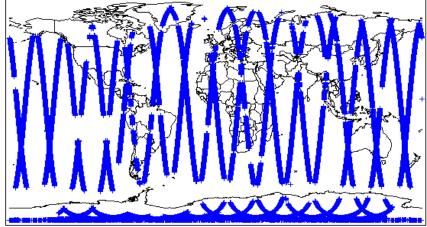
# IDEAS+ Daily Report for NRT data:

# <u>18/07/2015</u>

1. Overview						
Check Status						
port Production Date:	20-Jul-2015	Server check: science-pds.cryosat.esa.int	Nominal			
Data Usadi	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	See Sections 5.5, 6.5, 6.6 and 6.8			

Mission	Mission / Instrument News				
17-Ju	ul-2015	None			
18-Ju	ul-2015	None			
19-Ju	ul-2015	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

# 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	d 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		
	ld (1) for each measurement record. Th	a hit value of this flag indicates on unreliance when act
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (fie Number of products with errors: 0	au 11) foi each measulement record. Th	e bit value of this hay indicates any problems when set.
5. Le <sup>.</sup>	vel 1B FDM Data Qualit	y Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML heade	r 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 and	d SPH in order to identify any inconsiste	ncies 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	d baseline and also to check the validity	of Auxiliary Data Files is correct.
Number of products with errors: 0		
5.4 L1B FDM Correction Error Flags		
	otation processing shelp of station	
Each product is checked to detect auxiliary corrections flagged by the ground-s Number of products with errors: 0	station processing chain as missing or co	untaining errors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 18) for e	each measurement record. The bit value	of this flag indicates any problems when set.
Number of products with errors: 6		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150718T014525_20150718T014538_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150718T045928_20150718T050023_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150718T115322_20150718T115906_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150718T183819_20150718T183942_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150718T231257_20150718T231844_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20150718T233356_20150718T233700_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Le	evel 2 FDM Data Quality	/ Check
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML heade	r file (.HDR) and a binary product file (.DBL)
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	d SPH in order to identify any inconsiste	ncies and/or errors raised by the processing chain.
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 Number of products with errors: 0	d baseline and also to check the validity	of Auxiliary Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-s	station processing chain as missing or co	ontaining 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 measurem	nent record. The bit value of this flag is a	n assessment of the measurement quality by the processing chain.
Number of products with errors: 6	0.00	
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150718T014525_20150718T014538_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150718T045928_20150718T050023_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150718T115322_20150718T115906_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150718T183819_20150718T183942_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150718T231257_20150718T231844_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220150718T233356_20150718T233700_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

#### 6.6 L2 FDM Range Measurement Flags

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

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Number of products with errors: 2	Number of products with errors:		2

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150718T124501_20150718T125555_C001	0 0	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_220150718T201854_20150718T204303_C001		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. 0

Number of products with errors:

#### 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.

5

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150718T102434_20150718T103459_C001	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_220150718T124501_20150718T125555_C001	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_220150718T151211_20150718T151743_C001	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_220150718T201854_20150718T204303_C001	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_220150718T233717_20150718T234106_C001	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.

Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors	
144	0	0	0	0	
143	0	0	0	0	
rrors: 0					
7.2 Missing QCC Reports					
ing QCC reports: All	1				
c	144 143 rrors: 0 Drts	144     0       143     0	144         0         0         0           143         0         0         0         0           rrors:         0         0         0         0	144         0         0         0         0           143         0         0         0         0           rrors:         0         0         0         0           prts         0         0         0         0         0	