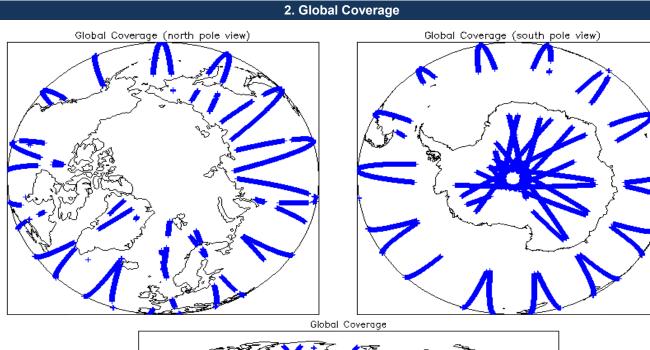


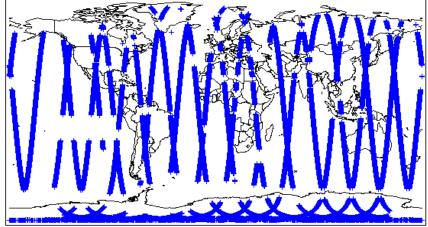
## IDEAS+ Daily Report for NRT data:

# <u>11/12/2014</u>

anart Braduation Data	2: 12-Dec-2014	Check	Status
Report Production Date:		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
Data Oseu.	(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			
10-Dec-2014	None		
11-Dec-2014	None		
12-Dec-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-determ Number of products with errors: 0	nined baseline and also to check the validit	y of Auxiliary Data Files is correct.	
4.4 L1 CAL Measurement Confidence Flags			
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word Number of products with errors: 0	(field 11) for each measurement record. T	he bit value of this flag indicates any problems when set.	
5. l	_evel 1B FDM Data Quali	ty Check	
5.1 L1B FDM Product Format Check			
	to another it consists of both on VMI bood	es file ( LIDD) and a biser ( another file ( DDL )	
Each product, retrieved and unpacked from the science server, is checked Number of products with errors: 0		ראטא, אטא א טוואז אין אויט איז אין אינאראן אין איז אין איז אין איז	
5.2 L1B FDM Product Header Analysis			
For all products, a series of pre-defined checks are carried out on the MPH Number of products with errors: 0	I and SPH in order to identify any inconsist	encies and/or errors raised by the ground-segment processing chain.	
5.3 L1B FDM Auxilary Data File Usage Check			
Each product is checked for missing Data Set Descriptors wrt a pre-determ	nined baseline and also to check the validit	y 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 corrections flagged by the grou	nd-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)	for each measurement record. The bit valu	e of this flag indicates any problems when set.	
Number of products with errors: 3			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_1B_20141211T091841_20141211T091857_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw ec	;ho
CS_OFFL_SIR_FDM_1B_20141211T133435_20141211T133731_B001 CS_OFFL_SIR_FDM_1B_20141211T183134_20141211T183637_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected	
6.	Level 2 FDM Data Qualit	y Check	
6.1 L2 FDM Product Format Check			
Each product, retrieved and unpacked from the science server, is checked Number of products with errors: 0	to ensure it consists of both an XML head	er 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	I and SPH in order to identify any inconsist	encies and/or errors raised by the processing chain.	
Currently there is a high number of processing error flags set within the Lev #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 acceptate	). They are set by the FDM processor whe	n an error is detected during the L2 processing and also when the per-	
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-determ	nined baseline and also to check the validit	y 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 grou	nd-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 measu	rement record. The bit value of this flag is	an assessment of the measurement quality by the processing chain.	
Number of products with errors: 3			
Product	Test Failed	Description	
CS_OFFL_SIR_FDM_2_20141211T091841_20141211T091857_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw ec	no
CS_OFFL_SIR_FDM_220141211T133435_20141211T133731_B001 CS_OFFL_SIR_FDM_2_20141211T183134_20141211T183637_B001	Attitude correction missing	The attitude has not been corrected The attitude has not been corrected	
00_0112_010_1040_2_201412111100104_201412111100007_B001	Attitude correction missing		

#### 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

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141211T112536_20141211T114714_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_220141211T123914_20141211T125002_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_220141211T183134_20141211T183637_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141211T062746_20141211T070102_B001		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_2_20141211T100229_20141211T100511_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_220141211T104756_20141211T105735_B001		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_220141211T112536_20141211T114714_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_220141211T123914_20141211T125002_B001		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_220141211T145234_20141211T150009_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_220141211T183134_20141211T183637_B001		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	165	0	0	0	0
SIR_FDM_2	162	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: All					