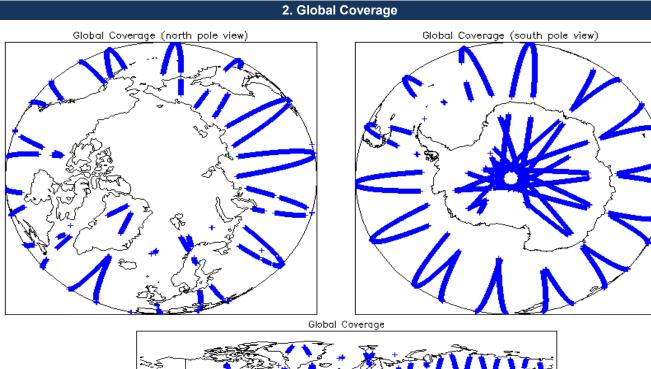


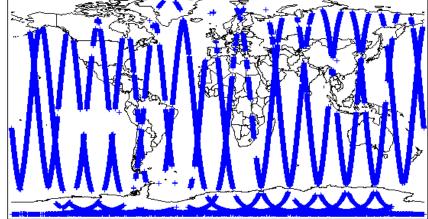
# IDEAS+ Daily Report for NRT data:

# <u>19/02/2015</u>

Report Production Date:	20-Feb-2015	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 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, 6.7 and 6.8	

mission / instru	iment News
18-Feb-2015	None
19-Feb-2015	None
20-Feb-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 & 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-determined bas Number of products with errors: 0	eline and also to check the validity of Auxi	liary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) Number of products with errors: 0	) for each measurement record. The bit va	lue of this flag indicates any problems when set.
5. Level	1B FDM Data Quality Ch	leck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure Number of products with errors: 0	e it consists of both an XML header file (.F	IDR) and a binary product file (.DBL).
5.2 L1B FDM Product Header Analysis		
For all products, a series of pre-defined checks are carried out on the MPH and SPH Number of products with errors: 0	H in order to identify any inconsistencies a	nd/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-determined bas Number of products with errors: 0	eline and also to check the validity of Auxi	liary Data Files is correct.
5.4 L1B FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station Number of products with errors: 0	n processing chain as missing or containin	g errors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each r	measurement record. The bit value of this	flag indicates any problems when set.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150219T085532_20150219T085556_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150219T103208_20150219T103213_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150219T120843_20150219T121015_B001	Attitude correction missing	The attitude has not been corrected
6. Leve	I 2 FDM Data Quality Che	eck
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure Number of products with errors: 0	e it consists of both an XML header file (.H	IDR) 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 and SPI	H in order to identify any inconsistencies a	nd/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 FDM #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They ar Data Set Records free of processing errors is below the minimum acceptable thresh	re set by the FDM processor when an error	r 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-determined bas Number of products with errors: 0	eline and also to check the validity of Auxi	liary Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station	n processing chain as missing or containin	n errors
Number of products with errors: 0		g anolo.
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement re	ecord. The bit value of this flag is an asses	ssment of the measurement quality by the processing chain.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150219T085532_20150219T085556_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150219T103208_20150219T103213_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150219T120843_20150219T121015_B001	Attitude correction missing	The attitude has not been corrected

### 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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150219T073434_20150219T074943_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_220150219T140854_20150219T144247_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_220150219T170923_20150219T171120_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_220150219T192352_20150219T194037_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:	1		
Product		Test Failed	Description

CS_OFFL	_SIR_FDM_2_	_20150219T140854_	_20150219T144247_B001

OCOG Backscatter Status Flag 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.

7

products with errors:
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Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150219T051935_20150219T052901_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_220150219T073434_20150219T074943_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_220150219T085556_20150219T085631_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_220150219T170923_20150219T171120_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_220150219T192352_20150219T194037_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_220150219T201116_20150219T202830_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_220150219T223733_20150219T225945_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	156	0	0	0	0		
SIR_FDM_2	156	0	0	0	0		
7.1 QCC Errors	7.1 QCC Errors						
Number of QCC reports with errors: 0							
7.2 Missing QCC Reports							
Number of products with missi	Number of products with missing QCC reports: All						