

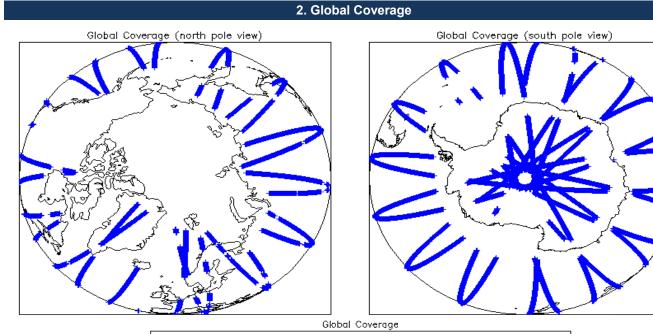
# IDEAS+ Daily Report for NRT data:

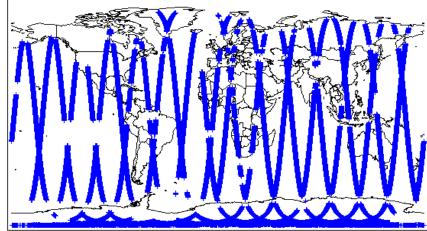
## <u>23/03/2015</u>

eport Production Date:	24-Mar-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 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, 6.7 and 6.8

Overview

1	Mission / Instrument News					
	22-Mar-2015	None				
	23-Mar-2015	None				
	24-Mar-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-de	termined bas	eline and also to check the validity of Au	xiliary 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 v	vord (field 11	) for each measurement record. The bit y	value of this flag indicates any problems when set			
Number of products with errors: 0						
5. Level 1B FDM Data Quality Check						
	b. Levei		neck			
5.1 L1B FDM Product Format Check						
Each product, retrieved and unpacked from the science server, is check	ked to ensur	e it consists of both an XML header 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 N	/IPH and SP	H in order to identify any inconsistencies	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-de	termined bas	eline and also to check the validity of Au	xiliary Data Files is correct.			
Number of products with errors: 0		· · · · · · · · · · · · · · · · · · ·				
5 4 L 4P EDM Correction Error Flags						
5.4 L1B FDM Correction Error Flags						
Each product is checked to detect auxiliary corrections flagged by the g	ground-statio	n processing chain as missing or contair	ing 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 value of th	is flag indicates any problems when set.			
Number of products with errors: 4						
Product		Test Failed	Description			
CS_OFFL_SIR_FDM_1B_20150323T081159_20150323T081506_B00	)1	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150323T095127_20150323T095219_B00		Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150323T113036_20150323T113130_B00		Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20150323T145402_20150323T145726_B00	)1	Attitude correction missing	The attitude has not been corrected			
	6. Leve	I 2 FDM Data Quality Cl	neck			
6.1 L2 FDM Product Format Check						
Each product, retrieved and unpacked from the science server, is chec	ked to ensur	e it consists of both an XML header file (	.HDR) and a binary product file (.DBL)			
Number of products with errors: 0						
C 0 L 0 FDM Draduct Llander Analysia						
6.2 L2 FDM Product Header Analysis						
For all products, a series of pre-defined checks are carried out on the N						
			ag). These flags are set within L2 Header files (MPH field #19 and SPH field ror is detected during the L2 processing and also when the percentage of			
Data Set Records free of processing errors is below the minimum acce	ptable thresh	nold set within the processor (currently se	et to 5%).			
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-de	termined bas	eline and also to check the validity of Au	xiliary 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	pround-statio	n processing chain as missing or contair	ing 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 me	easurement r	ecord. The bit value of this flag is an ass	essment of the measurement quality by the processing chain.			
Number of products with errors: 4						
Product CS_OEEL_SIR_EDM_2_20150323T081159_20150323T081506_R00	1	Test Failed	Description The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150323T081159_20150323T081506_B00 CS_OFFL_SIR_FDM_2_20150323T095127_20150323T095219_B00		Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected			
CS_OFFL_SIR_FDM_2201503231193036_2015032311930_00 CS_OFFL_SIR_FDM_220150323T113036_20150323T113130_B00		Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220150323T145402_20150323T145726_B00		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.

Number of products with errors:	3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150323T095753_20150323T095852_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_220150323T170310_20150323T170552_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_220150323T221431_20150323T222101_B001		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.

|--|

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150323T201511_20150323T204110_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.

1

Number of products with errors: 8						
Product	Test Failed	Description				
CS_OFFL_SIR_FDM_220150323T022857_20150323T022919_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_220150323T024336_20150323T030123_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_220150323T095753_20150323T095852_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_220150323T151236_20150323T152528_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_220150323T170310_20150323T170552_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_220150323T173541_20150323T180934_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_220150323T221431_20150323T222101_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_220150323T233145_20150323T233421_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	162	0	0	0	0	
SIR_FDM_2	161	0	0	0	0	
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					