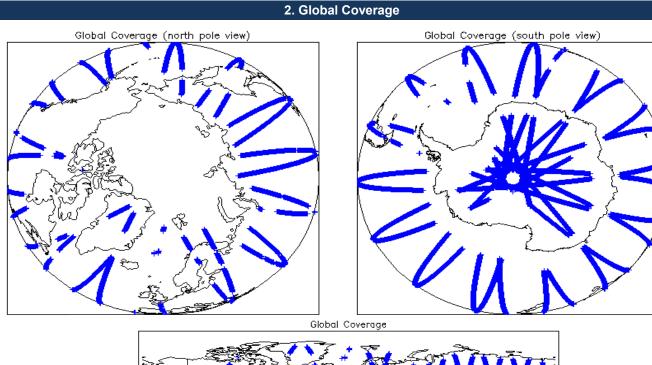


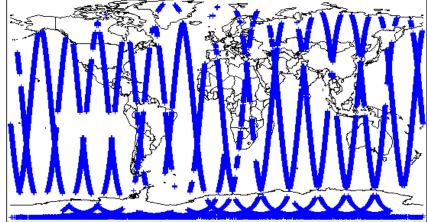
# IDEAS+ Daily Report for NRT data:

# <u>18/03/2015</u>

anort Braduction Data	22 Mar 2015	Check	Status
eport Production Date:	23-Mar-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, 6.7 and 6.8

	Mission / Instru	iment News
ſ	17-Mar-2015	None
	18-Mar-2015	None
	19-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-determined bas	seline and also to check the validity of Auxil	iary 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 (field 11	) for each measurement record. The bit val	ue of this flag indicates any problems when set
Number of products with errors: 0	i) for each measurement record. The bit val	ue of this hay indicates any problems when set.
5. Level	1B FDM Data Quality Ch	IECK
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	re it consists of both an XML header file (.H	IDR) 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 SF	'H in order to identify any inconsistencies ar	nd/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 ba	soling and also to check the validity of Auvi	ian/ Data Files is correct
Number of products with errors: 0		
5.4 L1B FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station	on processing chain as missing or containing	g 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 this	flag indicates any problems when set.
Number of products with errors: 4		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20150318T073326_20150318T073330_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150318T090940_20150318T090946_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150318T104613_20150318T104745_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20150318T133406_20150318T141015_B001	Attitude correction missing	The attitude has not been corrected
6. Leve	el 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 ensu	re it consists of both an XML beader file ( H	IDR) and a binary product file ( DBI )
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 SP		
Currently there is a high number of processing error flags set within the Level 2 FD #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They a		
Data Set Records free of processing errors is below the minimum acceptable three	hold set within the processor (currently set	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-determined bas	seline and also to check the validity of Auxil	iary 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-static	on processing chain as missing or containin	g 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 Number of products with errors: 4	record. The bit value of this flag is an asses	isment of the measurement quality by the processing chain.
	Toot Foiled	Description
Product CS_OFFL_SIR_FDM_2_20150318T073326_20150318T073330_B001	Test Failed Attitude correction missing	Description The attitude has not been corrected
CS_OFFL_SIR_FDM_220150318T090940_20150318T090946_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150318T104613_20150318T104745_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220150318T133406_20150318T141015_B001	Attitude correction missing	The attitude has not been corrected

Each product is checked to detect range measurements flagged by the proce	ssing chain as missing or containing errors.	
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150318T144348_20150318T145948_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
Each product is checked to detect parameters related to SWH and sigma0 th	5	ignored for these records.
Each product is checked to detect parameters related to SWH and sigma0 th Number of products with errors: 1	at are flagged by the processing chain as m	hissing or containing errors.
Each product is checked to detect parameters related to SWH and sigma0 th lumber of products with errors: 1	5	hissing or containing errors.  Description
6.7 L2 FDM SWH and Backscatter Measurement Fla         Each product is checked to detect parameters related to SWH and sigma0 th         Number of products with errors:       1         Product         CS_OFFL_SIR_FDM_2_20150318T083646_20150318T090649_B001	at are flagged by the processing chain as m	hissing or containing errors.
Each product is checked to detect parameters related to SWH and sigma0 th Aumber of products with errors: 1 Product	at are flagged by the processing chain as m	<ul> <li>Description</li> <li>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</li> </ul>

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150318T033921_20150318T035504_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_220150318T083646_20150318T090649_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_220150318T144348_20150318T145948_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_220150318T154641_20150318T154857_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_220150318T161145_20150318T162122_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_220150318T193606_20150318T195742_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.

SIR_FDM_1B 160 0 0 0 0	
	0
SIR_FDM_2 158 0 0 0 0	0

0

All

### 7.1 QCC Errors

Number of QCC reports with errors:

# 7.2 Missing QCC Reports

Number of products with missing QCC reports: