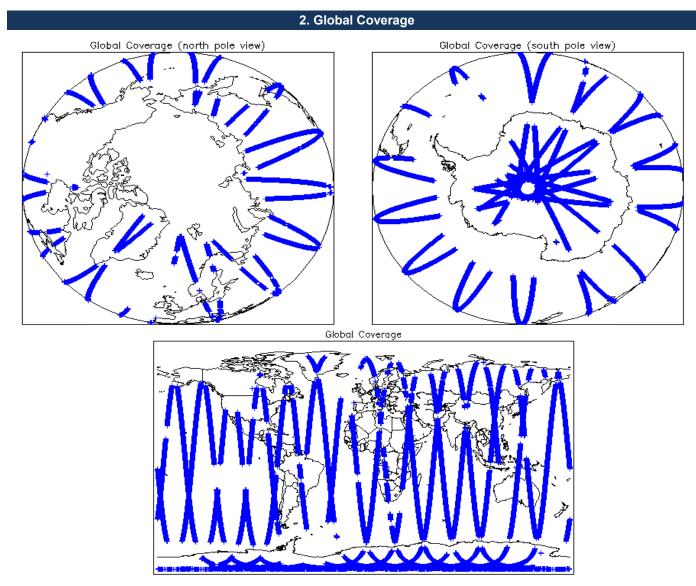


IDEAS+ Daily Report for NRT data:

<u>13/04/2015</u>

Demant Dreduction Deter	14-Apr-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 Useu.	(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 6.6, 6.7 and 6.8	

Mission / Instrument News				
12-Apr-2015	None			
13-Apr-2015	None			
14-Apr-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

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.

Number of products with errors:

0

4.3 L1 CAL Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined Number of products with errors: 0	baseline and also to check the validity of A	uxiliary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field Number of products with errors: 0	11) for each measurement record. The bit	value of this flag indicates any problems when set.
5. Lev	el 1B FDM Data Quality (Check
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 0	sure it consists of both an XML header file	(.HDR) 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 Number of products with errors: 0	SPH in order to identify any inconsistencie	s 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-determined Number of products with errors: 0	baseline and also to check the validity of A	uxiliary Data Files is correct.
5.4 L1B FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-sta Number of products with errors: 0	ation processing chain as missing or conta	ining errors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 18) for ea	ich measurement record. The bit value of t	his flag indicates any problems when set.
Number of products with errors: 0		
6. Lev	vel 2 FDM Data Quality C	heck
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 0	sure it consists of both an XML header 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 and	SPH in order to identify any inconsistencie	s 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	baseline and also to check the validity of A	uxiliary Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-sta Number of products with errors: 0	ation processing chain as missing or conta	ining errors.
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measureme Number of products with errors: 0	nt record. The bit value of this flag is an as	sessment of the measurement quality by the processing chain.
6.6 L2 FDM Range Measurement Flags		
Each product is checked to detect range measurements flagged by the processi Number of products with errors: 2	ng chain as missing or containing errors.	
Product	Test Failed	Description The master fail flag is set by the OCOG call, for one or more records,
CS_OFFL_SIR_FDM_220150413T135702_20150413T140539_C001	OCOG Retracked Range Flag	indicating the values stored in fields #18, #19, #20 and #21 should be ignored for these records. The master fail flag is set by the OCOG call, for one or more records,
CS_OFFL_SIR_FDM_220150413T153817_20150413T155038_C001	OCOG Retracked Range Flag	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	8	
Each product is checked to detect parameters related to SWH and sigma0 that a Number of products with errors: 1	are flagged by the processing chain as mis	sing or containing errors.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220150413T054558_20150413T055532_C001	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.

Each product is checked to detect geophysical 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_220150413T062618_20150413T065219_C001		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_220150413T121511_20150413T124824_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_220150413T135702_20150413T140539_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_220150413T153817_20150413T155038_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.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors	
SIR_FDM_1B	259	0	0	0	0	
SIR_FDM_2	257	0	0	0	0	
7.1 QCC Errors						
Number of QCC reports with errors: 0						
7.2 Missing QCC Reports						
Number of products with missing	QCC reports: All					