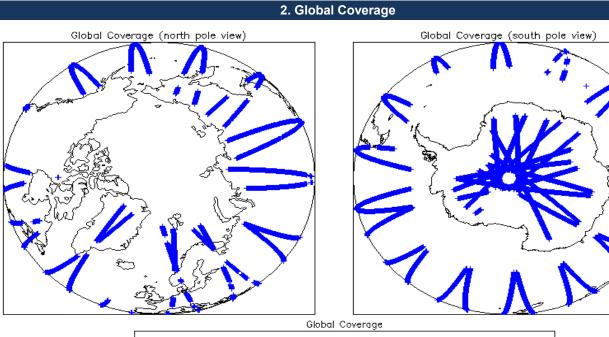


IDEAS+ Daily Report for NRT data:

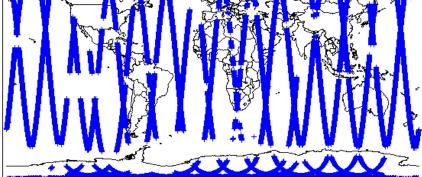
<u>20/12/2014</u>

Report Production Date:	02-Jan-2015	Check	Status	
Report Production Date.	02-Jaii-2015	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	

Mission / Instrument News				
19-Dec-2014	SIRAL unavailability on 19-December-2014 from 04:31:12 to 05:33:49 due to a planned orbit manoeuvre.			
20-Dec-2014	None			
21-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-determined baseline and also to check the validity of Auxiliary 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 value of this flag indicates any problems when set.							
Number of products with errors: 0							
5 9/9	1B FDM Data Quality Ch	eck					
5.1 L1B FDM Product Format Check							
Each product, retrieved and unpacked from the science server, is checked to ensur	e it consists of both an XML header file (.H	DR) 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 SP	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 bas	eline and also to check the validity of Auxil	iary 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 ground-statio Number of products with errors: 0	n processing chain as missing or containing	j enois.					
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 CS_OFFL_SIR_FDM_1B_20141220T123114_20141220T123751_B001	Test Failed Attitude correction missing	Description The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141220T141348_20141220T141450_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141220T155324_20141220T155343_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_1B_20141220T191701_20141220T191841_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 ensur Number of products with errors: 0	e it consists of both an XML header file (.H	DR) 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 SP	H in order to identify any inconsistencies ar	d/or errors raised by the processing chain.					
Currently there is a high number of processing error flags set within the Level 2 FDN #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 thresh							
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	eline 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-statio	n processing chain as missing or containing	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 r	ecord. The hit value of this flag is an access	sment of the measurement quality by the processing chain					
Number of products with errors: 4	coord. The bit value of this lidy is all dSSES	ement of the measurement quality by the processing Utdill.					
Product	Test Failed	Description					
CS_OFFL_SIR_FDM_220141220T123114_20141220T123751_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_220141220T141348_20141220T141450_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_220141220T155324_20141220T155343_B001	Attitude correction missing	The attitude has not been corrected					
CS_OFFL_SIR_FDM_220141220T191701_20141220T191841_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_220141220T002843_20141220T003957_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_220141220T131749_20141220T132747_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_220141220T194521_20141220T200518_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_220141220T221538_20141220T222200_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	
Number of products with errors.	1	

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141220T141912_20141220T142118_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.

7

Number of	products with errors:	

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141220T002843_20141220T003957_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_220141220T131749_20141220T132747_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_220141220T141912_20141220T142118_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_220141220T193421_20141220T194313_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_220141220T194521_20141220T200518_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_0FFL_SIR_FDM_220141220T211622_20141220T212812_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_220141220T221538_20141220T222200_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	159	0	0	0	0	
SIR_FDM_2	158	0	0	0	0	
7.1 QCC Errors	'.1 QCC Errors					
Number of QCC reports with er	rrors: 0					
7.2 Missing QCC Reports						
Number of products with missing QCC reports: All						