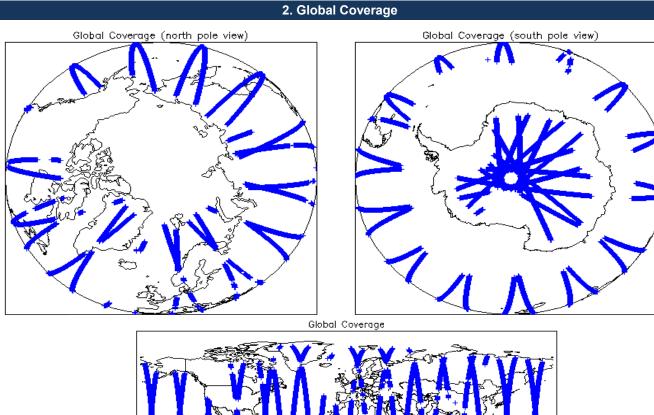


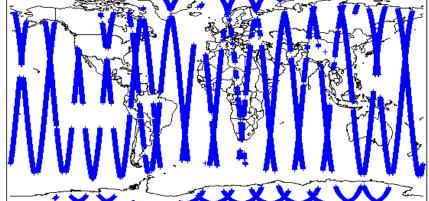
IDEAS+ Daily Report for NRT data:

<u>23/10/2014</u>

eport Production Date:	24-Oct-2014	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

Mission / Instru	ment News
22-Oct-2014	None
23-Oct-2014	None
24-Oct-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

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	liary 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 va	lue of this flag indicates any problems when set
Number of products with errors: 0	,	
E L avai	4P EDM Data Quality Ch	
	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 ensure	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 SP	'H in order to identify any inconsistencies a	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	soling and also to check the validity of Auvi	lian. Data Eilas is correct
Number of products with errors: 0	Senne and also to check the validity of Adal	
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station	on processing chain as missing or containin	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_20141023T152125_20141023T152807_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141023T170355_20141023T170503_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141023T184332_20141023T184353_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141023T220711_20141023T220847_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 ensur	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	PH in order to identify any inconsistencies an	nd/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 FDI #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They a	are set by the FDM processor when an error	r is detected during the L2 processing and also when the percentage of
Data Set Records free of processing errors is below the minimum acceptable thresh	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	liary 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	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 i	record. The hit value of this flag is an accord	ssment of the measurement quality by the processing chain
Number of products with errors: 4	Second. The bit value of this flay is all doots	
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141023T152125_20141023T152807_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141023T170355_20141023T170503_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141023T184332_20141023T184353_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141023T220711_20141023T220847_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_220141023T063856_20141023T065934_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_220141023T155130_20141023T160227_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_220141023T190320_20141023T191237_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_220141023T223655_20141023T225459_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: 2		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141023T141345_20141023T142313_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.
CS_OFFL_SIR_FDM_220141023T172415_20141023T175644_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.

All

Number of products with errors: 9		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141023T015625_20141023T020223_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_220141023T063856_20141023T065934_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_220141023T081729_20141023T085005_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_220141023T095714_20141023T101354_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_220141023T115202_20141023T120715_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_220141023T155130_20141023T160227_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_220141023T190320_20141023T191237_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_220141023T221949_20141023T223318_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_220141023T223655_20141023T225459_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	147	0	0	0	0
SIR_FDM_2	146	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with error	rs:	0			

7.2 Missing QCC Reports

Number of products with missing QCC reports: