

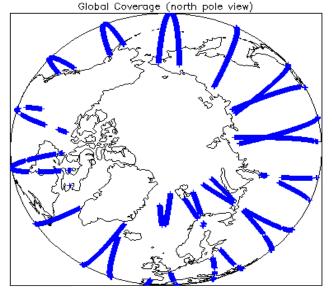
IDEAS+ Daily Report for NRT data:

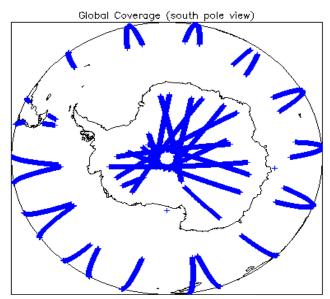
<u>20/10/2014</u>

Report Production Date:	21-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 and 6.8	

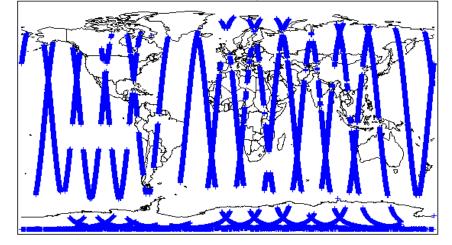
19-Oct-2014	
20-Oct-2014	
21-Oct-2014	Nothing planned







Global Coverage



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 Number of products with errors: 0	d baseline and also to check the validity o	of Auxiliary Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (fiel	ld 11) for each measurement record. The	bit value of this flag indicates any problems when set.
Number of products with errors: 0		
5. Lev	vel 1B FDM Data Quality	/ Check
5.1 L1B FDM Product Format Check	-	
Each product, retrieved and unpacked from the science server, is checked to e	ensure 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 MPH and Number of products with errors: 0	d SPH in order to identify any inconsisten	cies 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	d baseline and also to check the validity c	f Auxiliary Data Files is correct.
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-s	station processing chain as missing or co	ntaining 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 e	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_20141020T030024_20141020T030057_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_1B_20141020T161751_20141020T162010_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20141020T175628_20141020T175755_B001 CS_OFFL_SIR_FDM_1B_20141020T204734_20141020T211951_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
6. Le	evel 2 FDM Data Quality	Check
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL)
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	d SPH in order to identify any inconsisten	cies and/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 #29) and also within the L2 Product files (MPH field #35 and SPH field #33). The Data Set Records free of processing errors is below the minimum acceptable the set of the	ney are set by the FDM processor when a	
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	d baseline and also to check the validity o	of Auxiliary 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-s	station processing chain as missing or co	ntaining 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 measurem	ent record. The bit value of this flag is an	assessment of the measurement quality by the processing chain.
Number of products with errors: 4		
Product	Test Failed Echo error	Description
CS_OFFL_SIR_FDM_220141020T030024_20141020T030057_B001 CS_OFFL_SIR_FDM_220141020T161751_20141020T162010_B001	Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo The attitude has not been corrected
CS_OFFL_SIR_FDM_2_20141020T175628_20141020T105755_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220141020T204734_20141020T211951_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.

Number of products with errors:	3

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141020T063736_20141020T063922_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_220141020T101850_20141020T103134_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_220141020T181727_20141020T185024_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. 0

Number of products with errors:

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.

4

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220141020T012932_20141020T012948_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_220141020T063736_20141020T063922_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_220141020T101850_20141020T103134_B001		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_220141020T181727_20141020T185024_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	137	0	0	0	0
SIR_FDM_2	138	0	0	0	0
7.1 QCC Errors					
Number of QCC reports with er	rrors: All				
7.2 Missing QCC Repo	orts				
Number of products with missi	ing QCC reports: 0				