

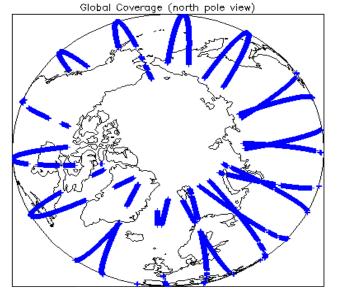
IDEAS+ Daily Report for NRT data:

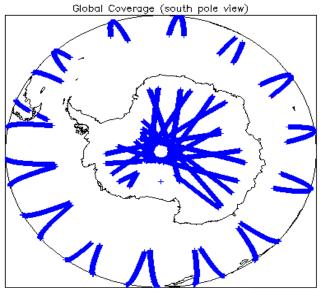
<u>01/10/2014</u>

Report Production Date:	02-Oct-2014	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Dete Heads	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	See Section 5.3 and 6.3	
		Correction Error Flags	See Sections 5.4 and 6.4	
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8	

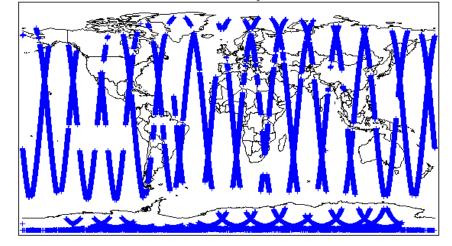
01-Oct-2014	None
02-Oct-2014	Nothing planned







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 & 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 1	11) for each measurement record. The bit val	ue of thi	s flag indicates any problems when set.		
Number of products with errors: 0					
5. Leve	el 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 ens	sure 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 S	CPH in order to identify any inconsistencies ar	nd/or erro	are raised by the ground-segment processing chain		
Number of products with errors: 0			as raised by the ground-segment processing chain.		
5.2.1.4.B. FDM Aussilans Data File Usage Chask					
5.3 L1B FDM Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors wrt a pre-determined b. Number of products with errors: 70	aseline and also to check the validity of Auxili	ary Data	I FIIES IS COTTECT.		
Product	AUX File		Comment		
	All Forecast Auxiliary Meteo files (AUXISE				
All FDM_1B products until 20141001T123938 (70 products)	AUXISURFPS; AUXIWETTRP: AUXIU_W AUXIV_WIND) for the following times: 20140930T180000; 20141001T000000; 20141001T060000; 20141001T120000	/IND;	Forecast Auxiliary Files not used in FDM processing.		
5.4 L1B Correction Error Flags					
Each product is checked to detect auxiliary corrections flagged by the ground-stat	tion processing chain as missing or containing	a orrors			
Number of products with errors: 70		g chois.			
Product	Test Failed	Descrip	tion		
All FDM 1B products until 20141001T123938 (70 products)	Dry tropospheric correction, Wet tropospheric correction, Inverse	Due to r	nissing Forecast Auxiliary Files, there was an error with the Dry		
	barometric correction	tropospl	heric, Wet tropospheric and Inverse barometric corrections.		
5.5 L1B FDM Measurement Confidence Flags					
CryoSat L1B data includes a measurement confidence flag word (field 14) for eac	th measurement record. The bit value of this t	flag indic	ates any problems when set		
Number of products with errors: 5					
Product	Test Failed	Descrip	tion		
CS_OFFL_SIR_FDM_1B_20141001T123110_20141001T123938_B001	Echo error	The Ech	no Rx1 Error flag is set, indicating a degraded raw echo		
CS_OFFL_SIR_FDM_1B_20141001T155529_20141001T155618_B001	Attitude correction missing	The atti	tude has not been corrected		
CS_OFFL_SIR_FDM_1B_20141001T173234_20141001T173236_B001	Attitude correction missing		tude has not been corrected no Rx1 Error flag is set, indicating a degraded raw echo. The		
CS_OFFL_SIR_FDM_1B_20141001T190909_20141001T191039_B001	Echo error, Attitude correction missing		has not been corrected		
CS_OFFL_SIR_FDM_1B_20141001T222550_20141001T223324_B001	Attitude correction missing	The atti	tude has not been corrected		
6. Lev	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 ens	sure it consists of both an XML header file (H	DR) 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 S	PH in order to identify any inconsistencies ar	nd/or err	prs raised by the processing chain.		
Currently there is a high number of processing error flags set within the Level 2 FI					
#29) and also within the L2 Product files (MPH field #35 and SPH field #33). They Data Set Records free of processing errors is below the minimum acceptable three	are set by the FDM processor when an error	r is deteo			
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 be	aseline and also to check the validity of Auxili	iary Data	Files is correct.		
Number of products with errors: 69					
Product	AUX File		Comment		
All FDM_2_ products until 20141001T123938 (69 products)	All Forecast Auxiliary Meteo files (AUXISE AUXISURFPS; AUXIWETTRP: AUXIU_W AUXIV_WIND) for the following times: 20140930T180000; 20141001T000000; 20141001T060000; 20141001T120000		Forecast Auxiliary Files not used in FDM processing.		

6.4 L2 FDM Correction Error Flags					
Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors.					
Number of products with errors: 69					
Product	Test Failed	Description			
All FDM_2_ products until 20141001T123938 (69 products)	Dry tropospheric correction, Wet tropospheric correction, Inverse barometric correction	Due to missing Forecast Auxiliary Files, there was an error with the Dry tropospheric, Wet tropospheric and Inverse barometric corrections.			
6.5 L2 FDM Measurement Confidence Flags					
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chain.					
Number of products with errors: 5					

Test Failed	Description
Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
Attitude correction missing	The attitude has not been corrected
Attitude correction missing	The attitude has not been corrected
Echo error, Attitude correction missing	The Echo Rx1 Error flag is set, indicating a degraded raw echo. The attitude has not been corrected
Attitude correction missing	The attitude has not been corrected
	Echo error Attitude correction missing Attitude correction missing Echo error, Attitude correction missing

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_220141001T034608_20141001T035659_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_220141001T064437_20141001T064821_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_220141001T073939_20141001T073956_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: 0

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.

Number of products with errors: 70		
Product	Test Failed	Description
All FDM_2_ products until 20141001T123938 (69 products)	U-Wind, V-Wind component errors	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_220141001T034608_20141001T035659_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_220141001T052534_20141001T053613_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_220141001T064437_20141001T064821_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_220141001T073939_20141001T073956_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_220141001T084429_20141001T091949_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_220141001T170157_20141001T172748_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 144 0 0 0 0 0					
SIR_FDM_2	142	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					