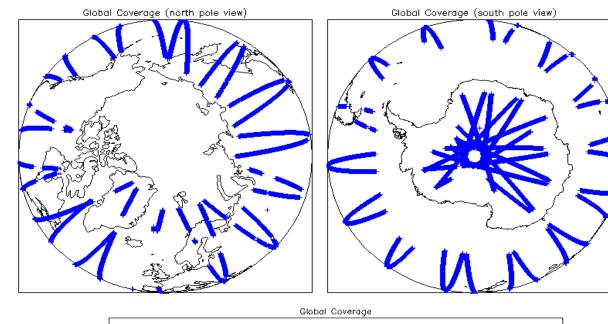
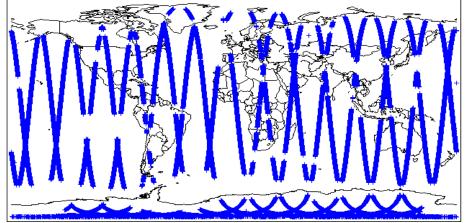


Mission / Instrument News			
26-Nov-2013	From 18th-26th November FDM NRT production was affected by a configuration issue which has impacted the attitude data and resulting data quality.		
27-Nov-2013	None		
28-Nov-2013	Nothing planned		

2. 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. 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 baseli Number of products with errors: 0	ne and also to check the validity of Auxiliar	y Data Files is correct.
4.4 L1 CAL Measurement Confidence Flags		
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field 11) for Number of products with errors: 0	or each measurement record. The bit value	of this flag indicates any problems when set.
5. Level 1B	FDM Data Quality Check	< compared with the second sec
5.1 L1B FDM Product Format Check	·	
Each product, retrieved and unpacked from the science server, is checked to ensure it	t 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 SPH in Number of products with errors: 0	n order to identify any inconsistencies 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 baseli Number of products with errors: 0	ne and also to check the validity of Auxilian	y Data Files is correct.
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station p Number of products with errors: 0	processing chain as missing or containing e	rrors.
5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each me Number of products with errors: 3	easurement record. The bit value of this flag	g indicates any problems when set.
Product CS_OFFL_SIR_FDM_1B_20131127T071741_20131127T071826_B001	Test Failed Attitude correction missing	Description The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20131127T103138_20131127T103300_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20131127T183400_20131127T185116_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
6. Level 2	FDM Data Quality Check	
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure in Number of products with errors: 0	t 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	n order to identify any inconsistencies and/	or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 FDM p field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They percentage of Data Set Records free of processing errors is below the minimum accep This issue is under investigation.	are set by the FDM processor when an er	ror is detected during the L2 processing and also when the
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 baseli Number of products with errors: 0	ne and also to check the validity of Auxiliar	y Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station p Number of products with errors: 0	processing chain as missing or containing e	rrors.
6.5 L2 FDM Measurement Confidence Flags		
CryoSat L2 data includes a quality flag word (field 8) for each 20-Hz measurement rec	ord. The bit value of this flag is an assessn	nent of the measurement quality by the processing chain.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220131127T071741_20131127T071826_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220131127T103138_20131127T103300_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220131127T183400_20131127T185116_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

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_220131127T020747_20131127T021101_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_220131127T174559_20131127T180200_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_220131127T211552_20131127T212010_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. 8

0

All

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220131127T020747_20131127T021101_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_220131127T123040_20131127T130443_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_220131127T160909_20131127T162301_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_220131127T165840_20131127T170122_B001	0,00	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_220131127T170245_20131127T170956_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_220131127T174559_20131127T180200_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_220131127T211552_20131127T212010_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_220131127T213737_20131127T220945_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	156	0	0	0	0
SIR_FDM_2	155	0	0	0	0

### 7.1 QCC Errors

Number of QCC reports with errors:

# 7.2 Missing QCC Reports

Number of products with missing QCC reports: