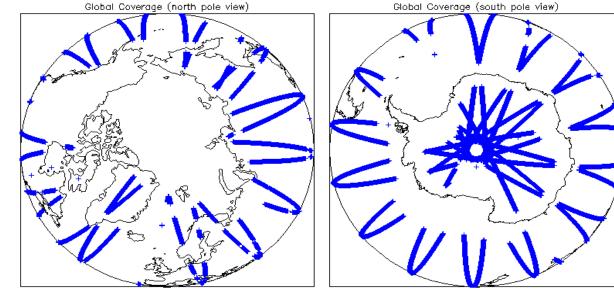
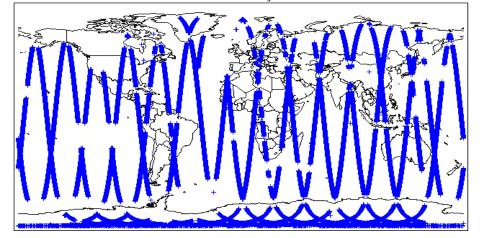


16-Jan-2014	None
17-Jan-2014	None
18-Jan-2014	Nothing planned

2. Global Coverage



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. 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 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. Level 1B FDM Data Quality Check			
5.1 L1B FDM 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:

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 order to identify any inconsistencies and/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 baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:	179		
Product		AUX File	Comment
All SIR_FDM_1B products (179 products)		CS_OPER_AUXIU_WIND_20140116T180000; 20140117T000000; 20140117T060000; CS_OPER_AUXIV_WIND_20140116T180000; 20140117T000000; 20140117T060000; 20140117T120000;	Missing Forecast Auxiliary Files: CS_OPER_AUXISEAMPS; CS_OPER_AUXISURFPS; CS_OPER_AUXIU_WIND;
All SIR_FDM_1B products (179 products)		CS_OPER_AUXIIONGIM_20140117T000000_20140117T23 5959_0001	Missing Forecast Auxiliary Files: CS_OPER_AUXIIONGIM

5.4 L1B 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:	179		
Product		Test Failed	Description
All SIR_FDM_1B products (179 products)		tropospheric correction, Inverse	Due to missing Forecast Auxiliary Files, there was an error with the Dry tropospheric, Wet tropospheric and Inverse barometric corrections.
All SIR_FDM_1B products (179 products)			Due to missing Forecast Auxiliary File, there was an error with the lonospheric correction.

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: 5

Product	Test Failed	Description	
CS_OFFL_SIR_FDM_1B_20140117T052201_20140117T052524_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20140117T070133_20140117T070228_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20140117T082310_20140117T082633_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo	
CS_OFFL_SIR_FDM_1B_20140117T084103_20140117T084126_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_1B_20140117T120435_20140117T120640_B001	Attitude correction missing	The attitude has not been corrected	

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 it consists of both an XML header file (.HDR) and a binary product file (.DBL)

Number of products with errors:

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 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 products (Product_Err and L2_Proc_Flag). These flags are set within L2 Header files (MPH field #19 and SPH field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are set by the FDM processor when an error is detected during the L2 processing and also when the percentage of Data Set Records free of processing errors is below the minimum acceptable threshold set within the processor (currently set to 5%).

This issue is under investigation.

0

6.3 L2 FDM 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: 180

Product	AUX File	Comment
All SIR_FDM_2 products (180 products)	CS_OPER_AUXIU_WIND_20140116T180000; 20140117T000000; 20140117T060000; CS_OPER_AUXIV_WIND_20140116T180000; 20140117T000000; 20140117T1200000;	Missing Forecast Auxiliary Files: CS_OPER_AUXISEAMPS; CS_OPER_AUXISURFPS; CS_OPER_AUXIU_WIND;
All SIR_FDM_2 products (180 products)	CS_OPER_AUXIIONGIM_20140117T000000_20140117T23 5959_0001	Missing Forecast Auxiliary Files: CS_OPER_AUXIIONGIM

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.

180

5

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Product	Test Failed	Description
All SIR_FDM_2 products (180 products)	tropospheric correction, Inverse th	Due to missing Forecast Auxiliary Files, there was an error with the Dry tropospheric, Wet tropospheric and Inverse barometric orrections.
All SIR_FDM_2 products (180 products)	GIM Ionospheric correction	Due to missing Forecast Auxiliary File, there was an error with the lonospheric correction.

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:

Product	Test Failed	Description	
CS_OFFL_SIR_FDM_220140117T052201_20140117T052524_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_220140117T070133_20140117T070228_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_220140117T082310_20140117T082633_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo	
CS_OFFL_SIR_FDM_220140117T084103_20140117T084126_B001	Attitude correction missing	The attitude has not been corrected	
CS_OFFL_SIR_FDM_220140117T120435_20140117T120640_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. 0

Number of products with errors:

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:

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. 180

Product	Test Failed	Description
All SIR_FDM_2 products (180 products)	U-Wind component errors, V-Wind component errors	Due to a missing Forecast Auxiliary Files, there was an error with the U-Wind and V-wind components of the ECMWF model wind vector.
CS_OFFL_SIR_FDM_220140117T002047_20140117T002350_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_220140117T014933_20140117T020435_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_220140117T212253_20140117T215712_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	179	0	0	0	0
SIR_FDM_2	180	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 re	ports: All				