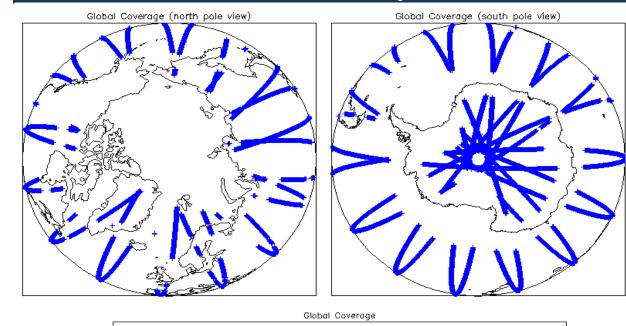
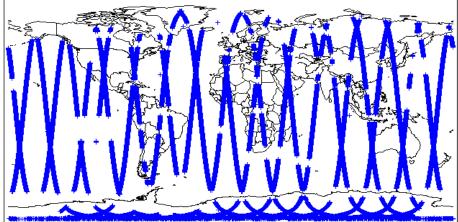


23-Apr-2014	None	
24-Apr-2014	Nothing planned	

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	

# 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).
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: 0

Number of products with errors:

### 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:
 0

#### 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.

2

Number of products with errors:

#### 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:

-		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20140423T032505_20140423T032540_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20140423T153701_20140423T154513_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 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 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.

Number of products with errors:

### 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:

#### 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.

2

0

Number of products with errors:

### 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_220140423T032505_20140423T032540_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140423T153701_20140423T154513_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

Each product is checked to detect range measurements flagged by the processi	ing chain as missing or containing errors.	
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140423T121204_20140423T122832_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	S	
Each product is checked to detect parameters related to SWH and sigma0 that a	are flagged by the processing chain as missing	or containing errors.
Number of products with errors: 0		
6.8.1.2 FDM Geophysical Measurement Flags		
6.8 L2 FDM Geophysical Measurement Flags		
Each product is checked to detect geophysical measurements flagged by the pro-	ocessing chain as missing or containing errors.	
	ocessing chain as missing or containing errors.	
Each product is checked to detect geophysical measurements flagged by the pr	ocessing chain as missing or containing errors.	Description
Each product is checked to detect geophysical measurements flagged by the provide of products with errors: 4		Description The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.
Each product is checked to detect geophysical measurements flagged by the provide the products with errors: 4  Product	Test Failed	The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or
Each product is checked to detect geophysical measurements flagged by the provide of products with errors: 4  Product  CS_OFFL_SIR_FDM_220140423T034601_20140423T041946_B001	Test Failed 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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or

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	149	0	0	0	0
SIR_FDM_2	147	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: All

0