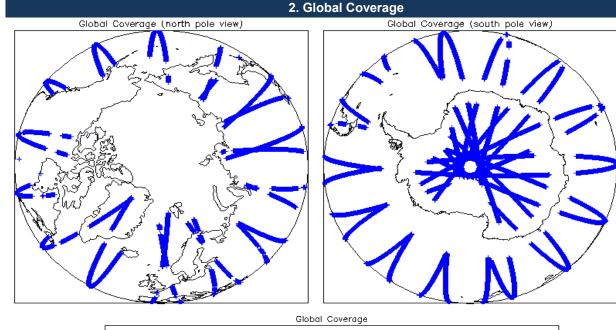
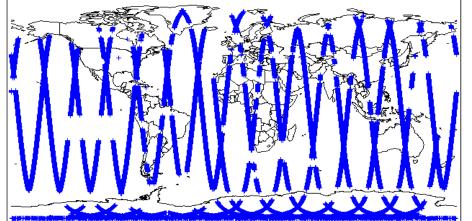


Mission / Instrument News21-Apr-2013None22-Apr-2013None

23-Apr-2013 SIRAL unavailability from 24-Apr-2013 08:35:52 to 10:18:26 due to a planned orbit manoeuvre.





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 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.

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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 Auxil	iary 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 e	each measurement record. The bit val	ue of this flag indicates any problems when set.
Number of products with errors: 0		
5. Level 1B F	DM Data Quality Che	ck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure it con Number of products with errors: 0	insists of both an XML header file (.Hi	DR) and a binary product file (.DBL).
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 or Number of products with errors: 0	rder to identify any inconsistencies ar	laror 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 baseline	and also to check the validity of Auxili	ary 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 proc	cessing chain as missing or containing	g errors.
Number of products with errors: 0		-
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5.5 L1B FDM Measurement Confidence Flags		
CryoSat L1B data includes a measurement confidence flag word (field 14) for each measurement	urement record. The bit value of this	lag indicates any problems when set.
Number of products with errors: 5		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130422T040832_20130422T041541_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130422T190313_20130422T190317_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130422T190320_20130422T191035_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130422T204701_20130422T204804_B001 CS_OFFL_SIR_FDM_1B_20130422T222600_20130422T222733_B001	Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
	Attitude correction missing	
6. Level 2 FI	OM Data Quality Chec	k
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensure it co	nsists of both an XML header file (.Hl	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 SPH in or	rder to identify any inconsistencies ar	d/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 FDM proc field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They ar percentage of Data Set Records free of processing errors is below the minimum acceptat	e set by the FDM processor when an	error is detected during the L2 processing and also when the
This issue is under investigation.		
Number of products with errors: 0		
6312 EDM Auviliary Data File Usage Check		
6.3 L2 FDM Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined baseline . Number of products with errors: 0	and also to check the validity of Auxil	ary Data Files is correct.
6.4 L2 FDM Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-station proc	cessing chain as missing or containing	g 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 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_220130422T040832_20130422T041541_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130422T190320_20130422T191035_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130422T204701_20130422T204804_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130422T222600_20130422T222733_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.

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Number of products with errors: 2		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130422T075914_20130422T081642_B001		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_220130422T143008_20130422T143225_B001		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:

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. 6

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130422T030249_20130422T031315_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_220130422T031455_20130422T032928_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_220130422T075914_20130422T081642_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_220130422T143008_20130422T143225_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_220130422T154110_20130422T155659_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_220130422T220839_20130422T221902_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	159	158	110	48	0
SIR_FDM_2	159	157	0	157	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name
CS_OFFL_SIR_FDM_1B_20130421T233723_20130422T001058_B001
CS_OFFL_SIR_FDM_220130421T233723_20130422T001058_B001
CS_OFFL_SIR_FDM_220130422T160917_20130422T161018_B001
CS_OFFL_SIR_FDM_220130422T162043_20130422T164444_B001
CS_OFFL_SIR_FDM_220130422T164718_20130422T165609_B001
CS_OFFL_SIR_FDM_220130422T165828_20130422T172024_B001
CS_OFFL_SIR_FDM_220130422T172044_20130422T172223_B001
CS_OFFL_SIR_FDM_220130422T172550_20130422T172646_B001
CS_OFFL_SIR_FDM_220130422T172818_20130422T173208_B001