





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	ad also to abook the validity of Auviliany F	lata Filas is correct			
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 ea	ch measurement record. The bit value of	this flag indicates any problems when set.			
Number of products with errors: 0					
5. Level 1B FD	M Data Quality Check				
5.1 L1B FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensure it con:	sists of both an XML beader file (HDR) a	nd a binary product file (DBI)			
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 ord	er 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 ar	nd also to check the validity of Auxiliary D	Pata 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 proce	ssing chain as missing or containing erro	rs.			
Number of products with errors: 0					
5.5 L1B FDM Measurement Confidence Flags					
CryoSat L1B data includes a measurement confidence flag word (field 14) for each measur	ement record. The hit value of this flag in	idicates any problems when set			
Number of products with errors: 3	ement record. The bit value of this hag in	dicates any problems when set.			
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_1B_20130507T175953_20130507T180318_B001	Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_1B_20130507T193926_20130507T194022_B001 CS_OFFL_SIR_FDM_1B_20130507T211854_20130507T211921_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected The attitude has not been corrected			
6. Level 2 FD	M Data Quality Check				
6.1 L2 FDM Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensure it con:	sists of both an XML header file (HDR) a	nd 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 ord	er 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 produ field #29) and also within the L2 Product files (MPH field #35 and SPH field #33). They are percentage of Data Set Records free of processing errors is below the minimum acceptable	cts (Product_Err and L2_Proc_Flag). The set by the FDM processor when an error	ese flags are set within L2 Header files (MPH field #19 and SPH is detected during the L2 processing and also when the			
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 baseline ar	nd also to check the validity of Auxiliary D	Pata Files is correct.			
Number of products with errors: 0					
6.4 L2 FDM Correction Error Flags					
Each product is checked to detect auxiliary corrections flagged by the ground-station proce	ssing chain as missing or containing erro	rs.			
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: 3					
Product	Test Failed	Description			
CS_OFFL_SIR_FDM_220130507T175953_20130507T180318_B001	Attitude correction missing Attitude correction missing	The attitude has not been corrected			
CS_OFFL_SIR_FDM_220130507T193926_20130507T194022_B001 CS_OFFL_SIR_FDM_220130507T211854_20130507T211921_B001	Attitude correction missing	The attitude has not been corrected 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.

Number of products with errors: 2		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130507T101020_20130507T102351_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_220130507T105817_20130507T111749_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:

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_220130507T002500_20130507T002657_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_220130507T015441_20130507T020419_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_220130507T101020_20130507T102351_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_220130507T105817_20130507T111749_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_220130507T142911_20130507T143859_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_220130507T151248_20130507T151703_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	146	146	108	38	0
SIR_FDM_2	146	146	0	146	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 Missing QCC Reports

Number of products with missing QCC reports: