





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:	SIRAL - A Star Tracker 2	
Star Tracker(s) in use:		

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.

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 Auvi	ian/ Data Filos 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	d 11) for each measurement record. The bit va	lue of this flag indicates any problems when set.
Number of products with errors: 0		
5. Level	1B FDM Data Quality Che	ck
5.1 L1B FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to en	sure it consists of both an XML header file (.H	DR) 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 Number of products with errors: 0	SPH in order to identify any inconsistencies ar	na/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	baseline and also to check the validity of Auxil	iary 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-st	ation processing chain as missing or containin	g errors.
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 ea	ach measurement record. The bit value of this	flag indicates any problems when set
Number of products with errors: 4		
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130426T235828_20130427T000445_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130427T180949_20130427T181605_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130427T195024_20130427T195250_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130427T213102_20130427T213128_B001	Attitude correction missing	The attitude has not been corrected
6. Leve	el 2 FDM Data Quality Chec	k
6.1 L2 FDM Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to en	sure it consists of both an XML header file (.H	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 order to identify any inconsistencies an	nd/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 field #29) and also within the L2 Product files (MPH field #35 and SPH field #33 percentage of Data Set Records free of processing errors is below the minimum). They are 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		
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 Auxil	iary Data Files is correct.
Number of products with errors: 0	-	

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.

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_220130426T235828_20130427T000445_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130427T180949_20130427T181605_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130427T195024_20130427T195250_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130427T213102_20130427T213128_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. 3

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130427T085520_20130427T090255_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_220130427T160245_20130427T161914_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_220130427T215139_20130427T220017_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

0

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0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130427T021830_20130427T023400_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_220130427T085520_20130427T090255_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_220130427T142310_20130427T143837_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_220130427T144038_20130427T150024_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_220130427T151719_20130427T152754_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_220130427T215139_20130427T220017_B001	5 , 5	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	141	139	99	40	0
SIR_FDM_2	139	138	0	138	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_20130426T235828_20130427T000445_B001 CS_OFFL_SIR_FDM_1B_20130427T185533_20130427T190658_B001

CS_OFFL_SIR_FDM_2__20130426T235828_20130427T000445_B001