



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 & 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.

4.3 L1 CAL Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors wrt a pre-determined	haseline and also to check the validity of Auvi	liary Data Files is correct
Number of products with errors: 0		
4.4 L1 CAL Measurement Confidence Flags		
ChieSet Cold and Cold data includes a measurement confidence flag word (field	(11) for each management report. The hit wa	lue of this flag indicates any problems when act
CryoSat Cal1 and Cal2 data includes a measurement confidence flag word (field Number of products with errors: 0	1 TT) for each measurement record. The bit va	ide of this hay indicates any problems when set.
	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 Number of products with errors: 0	sure it consists of both an XML header file (.H	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 order to identify any inconsistencies a	od/or arrars raised by the ground segment processing chain
Number of products with errors: 0	or this order to identify any inconsistencies a	invol errors raised by the ground-segment processing chain.
FOLDE FON Augulture Date File Unexes Observe		
5.3 L1B FDM Auxilary Data File Usage Check		line Dela Filez in como d
Each product is checked for missing Data Set Descriptors wrt a pre-determined Number of products with errors: 0	baseline and also to check the validity of Auxi	liary Data Files is correct.
5.4 L1B Correction Error Flags		
Each product is checked to detect auxiliary corrections flagged by the ground-sta	ation processing chain as missing or containir	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 Number of products with errors: 8	ach measurement record. The bit value of this	flag indicates any problems when set.
Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20130620T095930_20130620T103524_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130620T113821_20130620T121507_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130620T152502_20130620T153057_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130620T170509_20130620T170736_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130620T170809_20130620T171333_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_1B_20130620T183950_20130620T184610_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130620T195531_20130620T202650_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20130620T220956_20130620T221006_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 a	nd/or errors raised by the processing chain.
Currently there is a high number of processing error flags set within the Level 2 l 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 Auxi	liary Data Files is correct.

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.

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_220130620T095930_20130620T103524_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130620T113821_20130620T121507_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130620T152502_20130620T153057_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130620T170509_20130620T170736_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130620T170809_20130620T171333_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo.
CS_OFFL_SIR_FDM_220130620T183950_20130620T184610_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130620T195531_20130620T202650_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220130620T220956_20130620T221006_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. 4

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130620T005728_20130620T012707_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_220130620T073459_20130620T080328_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_220130620T104829_20130620T112219_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_220130620T185113_20130620T185406_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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220130620T054810_20130620T055349_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_220130620T073009_20130620T073420_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_220130620T104829_20130620T112219_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_220130620T123149_20130620T124837_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_220130620T185113_20130620T185406_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_220130620T231400_20130620T234414_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	101	101	85	16	0
SIR_FDM_2	101	101	0	101	0

7.1 QCC Errors Number of QCC reports with errors: 0 7.2 Missing QCC Reports

Number of products with missing QCC reports: