

# IDEAS+ Daily Report for NRT data:

# <u>17/09/2014</u>

Report Production Date:	18-Sep-2014	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Data Used:	L1 and L2 Fast Delivery Marine Mode	Server check: calval-pds.cryosat.esa.int	Nominal
	(FDM), and CAL Data	Product Software Check	Nominal
		Product Format Check	Nominal
		Product Header Analysis	Nominal
		Auxiliary Data File Usage	Nominal
		Correction Error Flags	Nominal
		Measurement Confidence Flags	See Sections 5.5, 6.5, 6.6 and 6.8

16-Sep-2014	None	
17-Sep-2014	None	
18-Sep-2014	Nothing planned	





## 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.

0

4.3 L1 CAL Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors wrt a pre-determine	d 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 (fie	eld 11) for each measurement record. The	e bit value of this flag indicates any problems when set.			
Number of products with errors: 0					
5. Le	vel 1B FDM Data Qualit	y 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 beade	r file ( HDR) and a binary product file ( DBI )			
Number of products with errors: 0					
5.2.1.1B EDM Broduct Header Analysis					
5.2 LID FDW FIGUUEL Reduct Analysis	d SDH in order to identify ony inconsista	point and/or arrang raised by the ground compart processing chain			
Number of products with errors:	In SPH in order to identify any inconsister	ncies and/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-determine	d 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 co	ontaining errors.			
Number of products with errors: 0					
	5.5.1.18 EDM Mossurement Confidence Elegs				
5.5 L1B FDM Measurement Confidence Flags					
5.5 L1B FDM Measurement Confidence Flags		of this flag indicates any problems when set			
5.5 L1B FDM Measurement Confidence Flags CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors: 23	each measurement record. The bit value	of this flag indicates any problems when set.			
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5.5 L1B FDM Measurement Confidence Flags CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors: 23 Product CS_OFEL_SIR_FDM_1B_20140917T014240_20140917T015305_B001	each measurement record. The bit value Test Failed Echo error	of this flag indicates any problems when set.           Description           The Echo Rx1 Error flag is set, indicating a degraded raw echo			
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5.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001           CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001         CS_OFFL_SIR_FDM_1B_20140917T081225_20140917T081627_B001           CS_OFFL_SIR_FDM_1B_20140917T081425_20140917T082133_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082133_B001           CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T082458_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082458_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T082458_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082458_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T082458_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082458_20140917T082452_B001	each measurement record. The bit value Test Failed Echo error Echo error Attitude correction missing Attitude correction missing	of this flag indicates any problems when set.         Description         In Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected			
S.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         23           Product         23           CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T043650_B001         25           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         25           CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T081602_B001         25           CS_OFFL_SIR_FDM_1B_20140917T081225_20140917T081627_B001         25           CS_OFFL_SIR_FDM_1B_20140917T081644_20140917T081627_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082162_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082642_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082746_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082454_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082454_2_B001         25           CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T082454_2_B001         25           CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T082454_2_B001         25           CS_OFFL_SIR_FDM_1B_20140917T092530_20140917T092545_B001         25           CS_OFFL_SIR_FDM_1B_20140917T092530_20140917T09255_B001         25           CS_OFFL_SIR_FDM_1	Test Failed         Echo error         Echo error         Attitude correction missing         Attitud	of this flag indicates any problems when set.         Description         In Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The tettitude has not been corrected         The attitude ha			
S.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         23           Product         23           CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001         25           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         23           CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001         25           CS_OFFL_SIR_FDM_1B_20140917T08051_20140917T08102_B001         25           CS_OFFL_SIR_FDM_1B_20140917T081644_20140917T081802_B001         25           CS_OFFL_SIR_FDM_1B_20140917T081656_20140917T082133_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T08248_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T083011_20140917T084341_B001         25           CS_OFFL_SIR_FDM_1B_20140917T094915_20140917T084341_B001         25           CS_OFFL_SIR_FDM_1B_20140917T092530_20140917T093557_B001         25           CS_OFFL_SIR_FDM_1B_20140917T094015_20140917T093657_B001         25           CS_OFFL_SIR_FDM_1B_20140917T094017_20140917T094057_B001         25 <td>Test Failed         Image: Echo error         Echo error         Attitude correction missing         Attitude correction missing</td> <td>of this flag indicates any problems when set.         Description         In Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Attitude has not been corrected         The attitude has not been corrected     </td>	Test Failed         Image: Echo error         Echo error         Attitude correction missing	of this flag indicates any problems when set.         Description         In Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Attitude has not been corrected			
S.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001           CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001         CS_OFFL_SIR_FDM_1B_20140917T081624_20140917T081802_B001           CS_OFFL_SIR_FDM_1B_20140917T081856_20140917T081802_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082133_B001           CS_OFFL_SIR_FDM_1B_20140917T0823642_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082929_B001           CS_OFFL_SIR_FDM_1B_20140917T083011_20140917T084341_B001         CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T0984915_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T0984915_20140917T0984912_B001           CS_OFFL_SIR_FDM_1B_20140917T0940152_20140917T098491_B001         CS_OFFL_SIR_FDM_1B_20140917T0940152_20140917T0984912_B001           CS_OFFL_SIR_FDM_1B_20140917T094017_20140917T09401_B001         CS_OFFL_SIR_FDM_1B_20140917T094017_20140917T09401_B001	each measurement record. The bit value Test Failed Echo error Echo error Attitude correction missing Attitude correction missing	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Attitude has not been corrected         The attitude has not			
S.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T043650_B001         25           CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080186_50_B001         25           CS_OFFL_SIR_FDM_1B_20140917T08051_20140917T08102_B001         25           CS_OFFL_SIR_FDM_1B_20140917T081856_20140917T081802_B001         25           CS_OFFL_SIR_FDM_1B_20140917T082362_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T0824542_20140917T082458_B001         25           CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T085429_B001         25           CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T085429_B001         25           CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T085429_B001         25           CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T085429_B001         25           CS_OFFL_SIR_FDM_1B_20140917T094015_20140917T095457_B001         25           CS_OFFL_SIR_FDM_1B_20140917T094017_2	Test Failed         Echo error         Echo error         Attitude correction missing         Attitud	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected         The attitude ha			
5.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T043650_B001           CS_OFFL_SIR_FDM_1B_20140917T083255_20140917T083650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T08018_B001           CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001         CS_OFFL_SIR_FDM_1B_20140917T081644_20140917T081802_B001           CS_OFFL_SIR_FDM_1B_20140917T081644_20140917T082133_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082642_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T085429_B001         CS_OFFL_SIR_FDM_1B_20140917T08011_20140917T085429_B001           CS_OFFL_SIR_FDM_1B_20140917T09230_20140917T092245_B001         CS_OFFL_SIR_FDM_1B_20140917T09230_20140917T093657_B001           CS_OFFL_SIR_FDM_1B_20140917T094017_20140917T093018_B001         CS_OFFL_SIR_FDM_1B_20140917T094017_20140917T095018_B001           CS_OFFL_SIR_FDM_1B_20140917T094017_20140917T095018_B001         CS_OFFL_SIR_FDM_1B_20140917T095619_20140917T095018_B001	Test Failed         Echo error         Echo error         Attitude correction missing         Attitud	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected         The attitude ha			
5.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001           CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001         CS_OFFL_SIR_FDM_1B_20140917T081225_20140917T081627_B001           CS_OFFL_SIR_FDM_1B_20140917T08144_20140917T082133_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082454_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082441_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082441_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T092530_20140917T092455_B001           CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T093657_B001         CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T093657_B001           CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T093651_B001         CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T095018_B001           CS_OFFL_SIR_FDM_1B_20140917T095619_20140917T095018_B001         CS_OFFL_SIR_FDM_1B_20140917T132757_20140917T1	each measurement record. The bit value Test Failed Echo error Echo error Attitude correction missing Attitude correction missing Echo error Echo error	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected         The attitude ha			
5.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001           CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001         CS_OFFL_SIR_FDM_1B_20140917T081225_20140917T081627_B001           CS_OFFL_SIR_FDM_1B_20140917T081255_20140917T08162_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082438_B001           CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T08230_20140917T093657_B001         CS_OFFL_SIR_FDM_1B_20140917T092530_20140917T093657_B001           CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T093651_B001         CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T093651_B001           CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T03461_B001         CS_OFFL_SIR_FDM_1B_20140917T132757_20140917T133143_B001           CS_OFFL_SIR_FDM_1B_20140917T142221_20140917T142813_B001         CS_OFFL_SIR_FDM_1B_20140917T142221_20140917T142813_B001	each measurement record. The bit value Test Failed Echo error Echo error Attitude correction missing Attitude correction missing Echo error Echo error Echo error	Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected         The attitude has not been corrected      <			
5.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001           CS_OFFL_SIR_FDM_1B_20140917T043255_20140917T043650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001           CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001         CS_OFFL_SIR_FDM_1B_20140917T081225_20140917T081627_B001           CS_OFFL_SIR_FDM_1B_20140917T081562_20140917T081402_B001         CS_OFFL_SIR_FDM_1B_20140917T082162_0140917T082133_B001           CS_OFFL_SIR_FDM_1B_20140917T082162_0140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082642_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082748_20140917T0824542_B001         CS_OFFL_SIR_FDM_1B_20140917T0820140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T09230_20140917T093657_B001         CS_OFFL_SIR_FDM_1B_20140917T094617_20140917T093657_B001           CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T093657_B001         CS_OFFL_SIR_FDM_1B_20140917T095619_20140917T093651_B001           CS_OFFL_SIR_FDM_1B_20140917T095619_20140917T093651_B001         CS_OFFL_SIR_FDM_1B_20140917T132757_20140917T133143_B001           CS_OFFL_SIR_FDM_1B_20140917T142221_20140917T142813_B001         CS_OFFL_SIR_FDM_1B_20140917T145202_20140917T142813_B001	Test Failed         Echo error         Echo error         Attitude correction missing         Echo error	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Attitude has not been corrected         The attitude ha			
S.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T015305_B001           CS_OFFL_SIR_FDM_1B_20140917T083255_20140917T043650_B001         CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T0801862_B001           CS_OFFL_SIR_FDM_1B_20140917T08051_20140917T081627_B001         CS_OFFL_SIR_FDM_1B_20140917T081644_20140917T081802_B001           CS_OFFL_SIR_FDM_1B_20140917T081856_20140917T082133_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T082452_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082474_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T094015_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T094057_B001           CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T095018_B001         CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T095018_B001           CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T095018_B001         CS_OFFL_SIR_FDM_1B_20140917T103757_20140917T133143_B001           CS_OFFL_SIR_FDM_1B_20140917T145202_20140917T145751_B001         CS_OFFL_SIR_FDM_1B_20140917T145202_20140917T145751_B001	Test Failed         Echo error         Echo error         Attitude correction missing         Echo error         Echo error         Echo error         Echo error         Echo error         Echo error         Attitude correction missing         Attitude correction missing	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected         The			
S.5 L1B FDM Measurement Confidence Flags           CryoSat L1B data includes a measurement confidence flag word (field 14) for Number of products with errors:         23           Product         23           Product         CS_OFFL_SIR_FDM_1B_20140917T014240_20140917T043650_B001           CS_OFFL_SIR_FDM_1B_20140917T080704_20140917T080918_B001         CS_OFFL_SIR_FDM_1B_20140917T080951_20140917T08102_B001           CS_OFFL_SIR_FDM_1B_20140917T081025_20140917T081627_B001         CS_OFFL_SIR_FDM_1B_20140917T081856_20140917T081802_B001           CS_OFFL_SIR_FDM_1B_20140917T081856_20140917T082133_B001         CS_OFFL_SIR_FDM_1B_20140917T082316_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T0824542_20140917T082458_B001         CS_OFFL_SIR_FDM_1B_20140917T0824542_20140917T082458_B001           CS_OFFL_SIR_FDM_1B_20140917T082474_20140917T082452_B001         CS_OFFL_SIR_FDM_1B_20140917T084915_20140917T082452_B001           CS_OFFL_SIR_FDM_1B_20140917T092530_20140917T093657_B001         CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T095018_B001           CS_OFFL_SIR_FDM_1B_20140917T09401_20140917T095018_B001         CS_OFFL_SIR_FDM_1B_20140917T103451_20140917T103431_B001           CS_OFFL_SIR_FDM_1B_20140917T1034519_20140917T103431_B001         CS_OFFL_SIR_FDM_1B_20140917T132757_20140917T133133_B001           CS_OFFL_SIR_FDM_1B_20140917T145202_20140917T142813_B001         CS_OFFL_SIR_FDM_1B_20140917T145202_20140917T142813_B001           CS_OFFL_SIR_FDM_1B_20140917T145202_20140917T145751_B001         CS_OFFL_SIR_FDM_1B_20140917T145202_20140917	each measurement record. The bit value Test Failed Echo error Echo error Attitude correction missing Attitude correction missing Echo error Echo error Echo error Attitude correction missing Attitude corection missing Attitude correction	of this flag indicates any problems when set.         Description         Ine Echo Rx1 Error flag is set, indicating a degraded raw echo         The Echo Rx1 Error flag is set, indicating a degraded raw echo         The attitude has not been corrected         The Echo Rx1 Er			

# 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.

0

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%).

#### 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. Number of products with errors: 0

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: 24

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140917T014240_20140917T015305_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140917T043255_20140917T043650_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140917T080704_20140917T080918_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T080951_20140917T081102_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T081225_20140917T081627_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T081644_20140917T081802_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T081856_20140917T082133_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T082316_20140917T082458_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T082642_20140917T082746_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T082748_20140917T082929_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T083011_20140917T084341_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T084915_20140917T085429_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T090152_20140917T092245_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T092530_20140917T093657_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T094617_20140917T094901_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T094901_20140917T095018_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T095619_20140917T095801_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T132757_20140917T133143_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140917T142221_20140917T142813_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140917T145202_20140917T145751_B001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo
CS_OFFL_SIR_FDM_220140917T161326_20140917T161417_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T174718_20140917T175014_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T192640_20140917T192750_B001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220140917T224406_20140917T224922_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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140917T001246_20140917T002935_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_220140917T080951_20140917T081102_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_220140917T192750_20140917T193030_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_220140917T224406_20140917T224922_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.

0

All

9

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220140917T001246_20140917T002935_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_220140917T045009_20140917T045234_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_220140917T063853_20140917T064715_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_220140917T080951_20140917T081102_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_220140917T104100_20140917T111655_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_220140917T122012_20140917T124829_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_220140917T203907_20140917T205421_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_220140917T221711_20140917T224128_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_220140917T224406_20140917T224922_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	139	0	0	0	0
SIR_FDM_2	138	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: