



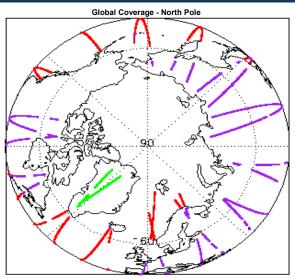
## 1. Overview

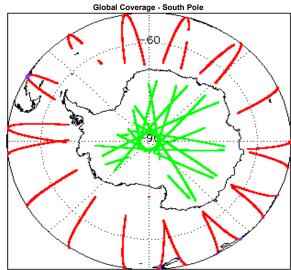
Report Production Date:	01-Apr-2016	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1 and L2 Fast Delivery Marine (FDM)	

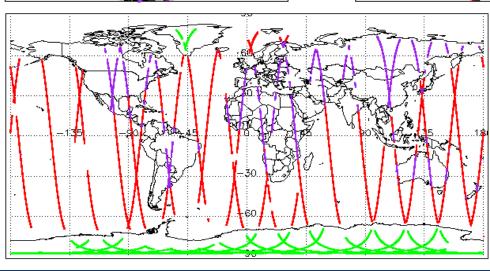
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 4.2
Star Tracker Usage Check	See Section 5.3
Calibration Usage Check	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 6.4
Measurement Confidence Data Check	See Section 5.7, 6.5, 6.6, 6.7 and 6.8

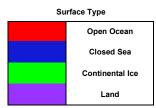
Mission / Instrument News		
30-Mar-2016	None	
31-Mar-2016	None	
01-Apr-2016	Nothing planned	

## 2. Global Coverage









# 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 0 Data Quality Check

## 4.1 L0 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).

#### 4.2 L0 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.

Number of products with errors:

Product	Test Failed
CS_OPER_SIR1SAR_020160331T223612_20160331T224427_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SAR_020160331T185730_20160331T190456_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020160331T010025_20160331T010436_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020160331T021617_20160331T022121_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR1SIN_020160331T230836_20160331T231302_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OPER_SIR2SIN_020160331T021617_20160331T022121_0001.HDR	Percentage of processing errors detected greater than minimum acceptable threshold.

### 5. Level 1B FDM Data Quality 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 header file (.HDR) 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 SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

#### 5.3 L1B FDM Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_FDM_1B_20160331T131842_20160331T135223_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20160331T152846_20160331T152948_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20160331T170757_20160331T170911_C001	No Star Tracker file used in the processing of this product
CS_OFFL_SIR_FDM_1B_20160331T185018_20160331T185053_C001	No Star Tracker file used in the processing of this product

#### 5.4 L1B FDM Calibration Usage Check

Each product is checked in order to ensure the necessary calibration files have been used in processing

0

Number of products with errors:

### 5.5 L1B FDM Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 5.6 L1B FDM Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 5.7 L1B FDM Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_1B_20160331T043138_20160331T043948_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20160331T124140_20160331T130610_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_FDM_1B_20160331T131842_20160331T135223_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20160331T152846_20160331T152948_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20160331T170757_20160331T170911_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20160331T185018_20160331T185053_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_1B_20160331T195940_20160331T201210_C001	Echo error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

## 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:

#### 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 ground-segment processing chain.

### 6.3 L2 FDM Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to 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 Auxiliary Correction Error Check

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:

36

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20160331T000343_20160331T002748_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T020039_20160331T021617_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T030323_20160331T031000_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T032217_20160331T035658_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T041132_20160331T041216_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T044013_20160331T044928_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T050148_20160331T052439_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T054939_20160331T055257_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T060024_20160331T061330_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T064117_20160331T071329_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T071652_20160331T071740_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T073142_20160331T073832_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T073846_20160331T080304_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T082107_20160331T083754_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T083756_20160331T085017_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T091531_20160331T092737_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T093626_20160331T094528_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T100021_20160331T101525_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T101705_20160331T102209_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T105353_20160331T110103_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T110226_20160331T112648_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T113957_20160331T120354_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T131842_20160331T135223_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T141252_20160331T142732_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T151330_20160331T152342_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T164137_20160331T164508_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T172856_20160331T173741_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T174026_20160331T180302_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T185053_20160331T185146_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T190921_20160331T194139_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T201235_20160331T202947_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T205120_20160331T210300_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T210503_20160331T212053_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T215335_20160331T220449_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T224427_20160331T225940_C001	Sea State Bias Correction, Altimetric Wind Speed	There is an error with the Altimetric Wind Speed and Sea State Bias Correction for one or more records
CS_OFFL_SIR_FDM_220160331T231302_20160331T234721_C001	Sea State Bias Correction	There is an error with the Sea State Bias Correction for one or more records

### 6.5 L2 FDM Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 8) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220160331T131842_20160331T135223_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220160331T152846_20160331T152948_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220160331T170757_20160331T170911_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220160331T185018_20160331T185053_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_FDM_220160331T195940_20160331T201210_C001	Echo error	The Echo Rx1 Error flag is set, indicating a degraded raw echo

### 6.6 L2 FDM Range Measurement Check

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CryoSat L2 data includes a CFI (field 17) and OCOG (field 22) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220160331T000343_20160331T002748_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T032217_20160331T035658_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T041132_20160331T041216_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T050148_20160331T052439_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T064117_20160331T071329_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T073142_20160331T073832_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T073846_20160331T080304_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T082107_20160331T083754_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T083756_20160331T085017_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T091531_20160331T092737_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T100021_20160331T101525_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T101705_20160331T102209_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T105353_20160331T110103_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T110226_20160331T112648_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T113957_20160331T120354_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T131842_20160331T135223_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T141252_20160331T142732_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T151330_20160331T152342_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T174026_20160331T180302_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T190921_20160331T194139_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T205120_20160331T210300_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T210503_20160331T212053_C001	CFI Retracked Range Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #13, #14, #15 and #16 should be ignored for these records.

## 6.7 L2 FDM SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH-Squared Averaging Status flag (field 39) and an CFI (field 45) and OCOG (field 51) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors: 22

Product	Test Failed	Description
CS_OFFL_SIR_FDM_220160331T000343_20160331T002748_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T032217_20160331T035658_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20160331T041132_20160331T041216_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T050148_20160331T052439_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20160331T064117_20160331T071329_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20160331T073142_20160331T073832_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20160331T073846_20160331T080304_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_220160331T082107_20160331T083754_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag such as Sward Sward Averaging Status Flag such as Sward Averaging Status Flag such as Sward Sward Averaging Status Flag suc	CS_OFFL_SIR_FDM_220160331T083756_20160331T085017_C001	CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	The master fail flag is set by the CFI call, for one or more records, indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
S_OFFL_SIR_FDM_2_20160331T101705_20160331T102209_C001  CS_OFFL_SIR_FDM_2_20160331T101705_20160331T102209_C001  CS_OFFL_SIR_FDM_2_20160331T101705_20160331T10103_C001  CS_OFFL_SIR_FDM_2_20160331T10226_20160331T110264_C001  CS_OFFL_SIR_FDM_2_20160331T10226_20160331T110254_C001  CS_OFFL_SIR_FDM_2_20160331T10226_20160331T10254_C001  CS_OFFL_SIR_FDM_2_20160331T13957_20160331T13523_C001  CS_OFFL_SIR_FDM_2_20160331T13957_20160331T13523_C001  CS_OFFL_SIR_FDM_2_20160331T13957_20160331T13523_C001  CS_OFFL_SIR_FDM_2_20160331T13442_20160331T13523_C001  CS_OFFL_SIR_FDM_2_20160331T13442_20160331T13523_C001  CS_OFFL_SIR_FDM_2_20160331T110300_C001  CS_OFFL_SIR_FDM_2_20160331T10300_C001  CS_OFFL_SIR_FDM_2_20160331T1030	CS_OFFL_SIR_FDM_220160331T091531_20160331T092737_C001		indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20160331T101705_20160331T110220_C001  CS_OFFL_SIR_FDM_2_20160331T110226_20160331T112648_C001  CS_OFFL_SIR_FDM_2_20160331T110226_20160331T112648_C001  CS_OFFL_SIR_FDM_2_20160331T113957_20160331T1120354_C001  CS_OFFL_SIR_FDM_2_20160331T113957_20160331T1120354_C001  CS_OFFL_SIR_FDM_2_20160331T1131842_20160331T135232_C001  CS_OFFL_SIR_FDM_2_20160331T1131842_20160331T1120354_C001  CS_OFFL_SIR_FDM_2_20160331T1131842_20160331T1120354_C001  CS_OFFL_SIR_FDM_2_20160331T1131842_20160331T1120354_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T1142732_C001  CS_OFFL_SIR_FDM_2_20160331T14052_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T150523_C001  CS_OFFL_SIR_FDM_2_20160331T10052_C001  CS_OFFL_SIR_FDM_2_20160331T1	CS_OFFL_SIR_FDM_220160331T100021_20160331T101525_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T110353_20160331T112648_C001  CS_OFFL_SIR_FDM_2_20160331T110266_20160331T112648_C001  CS_OFFL_SIR_FDM_2_20160331T113957_20160331T1120354_C001  CS_OFFL_SIR_FDM_2_20160331T113957_20160331T120354_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T135223_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T135223_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T100512_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T100512_201	CS_OFFL_SIR_FDM_220160331T101705_20160331T102209_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T110226_20160331T110254_C001  CS_OFFL_SIR_FDM_2_20160331T110357_20160331T120354_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T135223_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T135223_C001  CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T15330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T15330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T15330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T100331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T20530_20160331T210503_20160331T210505_C001  CS_OFFL_SIR_FDM_2_20160331T20530_20160331T210505_C001  CS_OFFL_SIR_FDM_2_20160331T20530_20160331T20505_C001  CS_OFFL_SIR_FDM_2_20160331T20530_20160331T20505_C001  CS_OFFL_SIR_FDM_2_20160331T20503_20160331T20505_C001  CS_OFFL_SIR_FDM_2_20160331T20503_20160331T20505_C001  CS_OFFL_SIR_FDM_2_20160331T20503_20160331T20505_C0	CS_OFFL_SIR_FDM_220160331T105353_20160331T110103_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T113957_20160331T120354_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T135223_C001  CS_OFFL_SIR_FDM_2_20160331T131842_20160331T135223_C001  CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T190921_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T210503_20160331T210505_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T210505_C001  CS_OFFL_SIR_FDM_2_20160331T210505_20160331T210505_C001  CS_OFFL_SIR_FDM_2_20160331T210505_20160331T210505_C001  CS_OFFL_SIR_FDM_2_20160331T210505_20160331T210505_C001  CS_OFFL_SIR_FD	CS_OFFL_SIR_FDM_220160331T110226_20160331T112648_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T131842_20160331T14252_2016  CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T190921_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T20503_20160331T210503_201603	CS_OFFL_SIR_FDM_220160331T113957_20160331T120354_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T141252_20160331T142732_C001  CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T190921_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CS_OFFL_SIR_FDM_2_20160331T190921_20160331T194139_C001  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag	CS_OFFL_SIR_FDM_220160331T131842_20160331T135223_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T151330_20160331T152342_C001  CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T190921_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag  CFI Backscatter Status Flag  CFI Backscatter Status Flag  CFI Backscatter	CS_OFFL_SIR_FDM_220160331T141252_20160331T142732_C001		indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
CS_OFFL_SIR_FDM_2_20160331T174026_20160331T180302_C001  CS_OFFL_SIR_FDM_2_20160331T190921_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status	CS_OFFL_SIR_FDM_220160331T151330_20160331T152342_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T190921_20160331T194139_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag, SWH Squared Averaging Status Flag  CFI Backscatter Status Flag  CFI Backscatt	CS_OFFL_SIR_FDM_220160331T174026_20160331T180302_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T205120_20160331T210300_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001  CS_OFFL_SIR_FDM_2_20160331T210503_20160331T210503_C001	CS_OFFL_SIR_FDM_220160331T190921_20160331T194139_C001		indicating the values stored in fields #41, #42, #43 and #44 should be
CS_OFFL_SIR_FDM_2_20160331T210503_20160331T212053_C001 CFI Backscatter Status Flag, SWH indicating the values stored in fields #41, #42, #43 and #44 should be	CS_OFFL_SIR_FDM_220160331T205120_20160331T210300_C001		indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.
	CS_OFFL_SIR_FDM_220160331T210503_20160331T212053_C001		indicating the values stored in fields #41, #42, #43 and #44 should be

# 6.8 L2 FDM Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 66) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

35

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_FDM_2_20160331T000343_20160331T002748_C001	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_220160331T020039_20160331T021617_C001	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_220160331T032217_20160331T035658_C001	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_220160331T041132_20160331T041216_C001	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_220160331T050148_20160331T052439_C001	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_220160331T060024_20160331T061330_C001	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_220160331T064117_20160331T071329_C001	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_220160331T073142_20160331T073832_C001	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_220160331T073846_20160331T080304_C001	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_220160331T082107_20160331T083754_C001	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_220160331T083756_20160331T085017_C001	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_220160331T091531_20160331T092737_C001	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_220160331T093626_20160331T094528_C001	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_220160331T100021_20160331T101525_C001	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_220160331T101705_20160331T102209_C001	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_220160331T105353_20160331T110103_C001	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_220160331T110226_20160331T112648_C001	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_220160331T113957_20160331T120354_C001	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_220160331T131842_20160331T135223_C001	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_220160331T141252_20160331T142732_C001	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_220160331T145747_20160331T151327_C001	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_220160331T151330_20160331T152342_C001	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_220160331T153528_20160331T153618_C001	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_220160331T164604_20160331T165320_C001	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_220160331T172856_20160331T173741_C001	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_220160331T174026_20160331T180302_C001	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_220160331T183050_20160331T184308_C001	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.

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CS_OFFL_SIR_FDM_220160331T190921_20160331T194139_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220160331T195940_20160331T201210_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220160331T201235_20160331T202947_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220160331T205120_20160331T210300_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220160331T210503_20160331T212053_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220160331T215335_20160331T220449_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_220160331T224427_20160331T225940_C001	Ocean Retracking Quality Flag
CS_OFFL_SIR_FDM_2_20160331T231302_20160331T234721_C001	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. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records. The Ocean Retracking Quality Flag is set indicating the CFI Ocean Retracker was not successfully executed for one or more records.