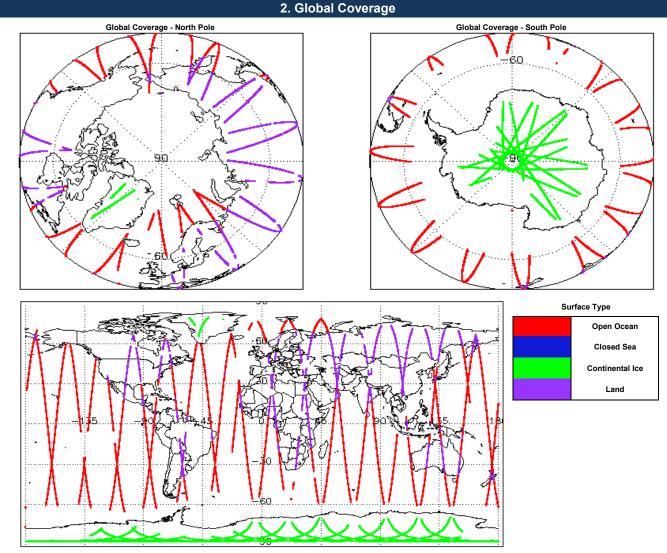


# **IDEAS+ Daily Report for FDM data:**

# 23/08/2016

|                         | 24-Aug-2016  | Check                                     | Status                                 |  |
|-------------------------|--|---|--|--|
| Report Production Date: |  | Server check: science-pds.cryosat.esa.int | Nominal                                |  |
| Processor Used:         | CryoSat Ice Processor                                    | Server check: calval-pds.cryosat.esa.int  | Nominal                                |  |
| Processor used.         |  | Product Software Check                    | Nominal                                |  |
| Data Used:              | L1 and L2 Fast Delivery Marine (FDM)<br>Mode and L0 Data | 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 / Instru | iment News      |
|------------------|-----------------|
| 22-Aug-2016      | None            |
| 23-Aug-2016      | None            |
| 24-Aug-2016      | 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 & 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).

Number of products with errors:

## 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:

0

| Product  | Test Failed   |
|--|---|
| CS_OPER_SIR1SAR_020160823T180220_20160823T180457_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020160823T182638_20160823T183437_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_0_20160823T061323_20160823T061544_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020160823T203418_20160823T203752_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020160823T142943_20160823T143103_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020160823T051909_20160823T052355_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020160823T150835_20160823T151045_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020160823T205406_20160823T205525_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020160823T144402_20160823T144428_0001.HDR  | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020160823T181620_20160823T182638_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:

### 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: 5

| Product   | Test Failed   |  |
|---|---|--|
| CS_OFFL_SIR_FDM_1B_20160823T064222_20160823T064720_C001 | No Star Tracker file used in the processing of this product |  |
| CS_OFFL_SIR_FDM_1B_20160823T082348_20160823T082451_C001 | No Star Tracker file used in the processing of this product |  |
| CS_OFFL_SIR_FDM_1B_20160823T100253_20160823T100421_C001 | No Star Tracker file used in the processing of this product |  |
| CS_OFFL_SIR_FDM_1B_20160823T100421_20160823T100421_C001 | No Star Tracker file used in the processing of this product |  |
| CS_OFFL_SIR_FDM_1B_20160823T114315_20160823T114610_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: 0

#### 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: 0

#### 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: 6                       |                             |  |
|---|-----------------------------|--|
| Product   | Test Failed                 | Description  |
| CS_OFFL_SIR_FDM_1B_20160823T064222_20160823T064720_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20160823T082348_20160823T082451_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20160823T100253_20160823T100421_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20160823T100421_20160823T100421_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20160823T114315_20160823T114610_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20160823T165630_20160823T170342_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: 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 ground-segment processing chain. Number of products with errors: 0

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:

Test Failed Description Product Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160822T233806 20160823T001415 C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS\_OFFL\_SIR\_FDM\_2\_\_20160823T003355\_20160823T005813\_C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T011712 20160823T014514 C001 Wind Speed Correction for one or more records There is an error with the Altimetric Wind Speed and Sea State Bias Sea State Bias Correction, Altimetric CS OFFL SIR FDM 2 20160823T014732 20160823T015341 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T020659\_20160823T022249\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T025636 20160823T031032 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T034903\_20160823T035458\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T035737 20160823T042013 C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS OFFL SIR FDM 2 20160823T043613 20160823T045911 C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T061544\_20160823T063941\_C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS OFFL SIR FDM 2 20160823T072818 20160823T073749 C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T083035\_20160823T083214\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T084411 20160823T091730 C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS OFFL SIR FDM 2 20160823T093645 20160823T094057 C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T094532 20160823T095551 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T100715 20160823T101129 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T102022\_20160823T102128\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T102136\_20160823T103253\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T103538 20160823T105639 C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS\_OFFL\_SIR\_FDM\_2\_\_20160823T110454\_20160823T110903\_C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T111405 20160823T113828 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T114610\_20160823T114656\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T114744\_20160823T114756\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T120035 20160823T120344 C001 Wind Speed Correction for one or more records Sea State Bias Correction Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T120348\_20160823T123548\_C001 Correction for one or more records Wind Speed Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T133902 20160823T134506 C001 Wind Speed Correction for one or more records Sea State Bias Correction. Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T134641\_20160823T135813\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T140016\_20160823T141453\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_EDM\_2\_\_20160823T144842\_20160823T150212\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T150259\_20160823T150506\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T160946 20160823T163511 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T170914 20160823T173231 C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS\_OFFL\_SIR\_FDM\_2\_\_20160823T174821\_20160823T180220\_C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T184801 20160823T191208 C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T192826\_20160823T193836\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T194410\_20160823T200204\_C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS OFFL SIR FDM 2 20160823T201324 20160823T201815 C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T202641\_20160823T202816\_C001 Wind Speed Correction for one or more records There is an error with the Sea State Bias Correction for one or more CS OFFL SIR FDM 2 20160823T210808 20160823T214303 C001 Sea State Bias Correction records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T215257\_20160823T215520\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T220415\_20160823T220705\_C001 Wind Speed Correction for one or more records Sea State Bias Correction, Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS OFFL SIR FDM 2 20160823T220848 20160823T222932 C001 Wind Speed Correction for one or more records Sea State Bias Correction Altimetric There is an error with the Altimetric Wind Speed and Sea State Bias CS\_OFFL\_SIR\_FDM\_2\_\_20160823T224653\_20160823T232226\_C001 Wind Speed 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. 5 Number of products with errors:

| Product   | Test Failed                 | Description  |
|---|-----------------------------|--|
| CS_OFFL_SIR_FDM_220160823T064222_20160823T064720_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220160823T082348_20160823T082451_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220160823T100253_20160823T100421_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220160823T114315_20160823T114610_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220160823T165630_20160823T170342_C001 | Echo error                  | The Echo Rx1 Error flag is set, indicating a degraded raw echo |

## 6.6 L2 FDM Range Measurement Check

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: 25

| Product  | Test Failed              | Description   |
|--|--------------------------|---|
| CS_OFFL_SIR_FDM_2_20160822T233806_20160823T001415_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T011712_20160823T014514_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T020659_20160823T022249_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T061544_20160823T063941_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T083035_20160823T083214_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T084411_20160823T091730_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_2_20160823T094532_20160823T095551_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T100715_20160823T101129_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T102022_20160823T102128_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T102136_20160823T103253_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T103538_20160823T105639_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T111405_20160823T113828_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_2_20160823T120035_20160823T120344_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T120348_20160823T123548_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T133902_20160823T134506_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T134641_20160823T135813_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T140016_20160823T141453_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T144842_20160823T150212_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_2_20160823T150259_20160823T150506_C001 | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T160946_20160823T163511_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T170914_20160823T173231_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T184801_20160823T191208_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T202641_20160823T202816_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T220415_20160823T220705_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T224653_20160823T232226_C001  | CFI Retracked Range Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #13, #14, #15 and #16 should be<br>ignored for these records. |

### 6.7 L2 FDM SWH and Backscatter Measurement Check

25

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:

| Product   | Test Failed   | Description   |
|---|---|---|
| CS_OFFL_SIR_FDM_220160822T233806_20160823T001415_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T011712_20160823T014514_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T020659_20160823T022249_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T061544_20160823T063941_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T083035_20160823T083214_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T084411_20160823T091730_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T094532_20160823T095551_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T100715_20160823T101129_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T102022_20160823T102128_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T102136_20160823T103253_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T103538_20160823T105639_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T111405_20160823T113828_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T120035_20160823T120344_C001 | CFI Backscatter Status Flag, SWH<br>Squared Averaging Status Flag | The master fail flag is set by the CFI call, for one or more records,<br>indicating the values stored in fields #41, #42, #43 and #44 should be<br>ignored for these records. |
| CS_OFFL_SIR_FDM_220160823T120348_20160823T123548_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T133902_20160823T134506_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T134641_20160823T135813_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T140016_20160823T141453_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T144842_20160823T150212_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T150259_20160823T150506_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T160946_20160823T163511_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T170914_20160823T173231_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T184801_20160823T191208_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T202641_20160823T202816_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T220415_20160823T220705_C001 | CFI Backscatter Status Flag, SWH<br>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_220160823T224653_20160823T232226_C001 | CFI Backscatter Status Flag, SWH<br>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.       |

# 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.

 Number of products with errors:
 49

| Product   | Test Failed                   | Description   |
|---|-------------------------------|---|
| CS_OFFL_SIR_FDM_220160822T233806_20160823T001415_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T002642_20160823T003338_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T003355_20160823T005813_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T011712_20160823T014514_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T020659_20160823T022249_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T023537_20160823T023942_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T025636_20160823T031032_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T031211_20160823T031454_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T034529_20160823T034740_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T035737_20160823T042013_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T043613_20160823T045911_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T052611_20160823T055952_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T061544_20160823T063941_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |
| CS_OFFL_SIR_FDM_220160823T064720_20160823T065327_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag is set indicating the CFI Ocean<br>Retracker was not successfully executed for one or more records. |

CS\_OFFL\_SIR\_FDM\_2\_\_20160823T070749\_20160823T072243\_C001 CS OFFL SIR FDM 2 20160823T080122 20160823T081016 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T081749\_20160823T081924\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T083035\_20160823T083214\_C001 CS OFFL SIR FDM 2 20160823T084411 20160823T091730 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T094112\_20160823T094530\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T094532\_20160823T095551\_C001 CS OFFL SIR FDM 2 20160823T100715 20160823T101129 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T102022\_20160823T102128\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T102136\_20160823T103253\_C001 CS OFFL SIR FDM 2 20160823T103538 20160823T105639 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T111405\_20160823T113828\_C001 CS OFFL SIR FDM 2 20160823T114744 20160823T114756 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T120035\_20160823T120344\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T120348\_20160823T123548\_C001 CS OFFL SIR FDM 2 20160823T125448 20160823T130716 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T133902\_20160823T134506\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T134641\_20160823T135813\_C001 CS OFFL SIR FDM 2 20160823T140016 20160823T141453 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T143213\_20160823T144402\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T144842\_20160823T150212\_C001 CS OFFL SIR FDM 2 20160823T150259 20160823T150506 C001 CS OFFL SIR FDM 2 20160823T160946 20160823T163511 C001 CS OFFL SIR FDM 2 20160823T170914 20160823T173231 C001 CS OFFL SIR FDM 2 20160823T174821 20160823T180220 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T180457\_20160823T181615\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T184801\_20160823T191208\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T194410\_20160823T200204\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T201324\_20160823T201815\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T202641\_20160823T202816\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T210808\_20160823T214303\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T215257\_20160823T215520\_C001 CS OFFL SIR FDM 2 20160823T220415 20160823T220705 C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T220848\_20160823T222932\_C001 CS\_OFFL\_SIR\_FDM\_2\_\_20160823T224653\_20160823T232226\_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. 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. 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. 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.