



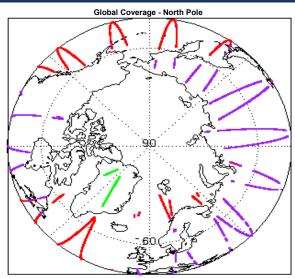
# 1. Overview

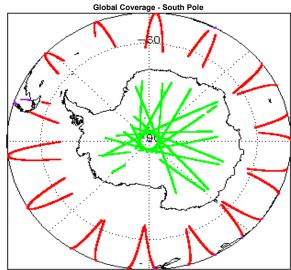
| Report Production Date: | 31-May-2016                          |  |
|-------------------------|--------------------------------------|--|
| Processor Used:         | CryoSat Ice Processor                |  |
| Data Used:              | L1 and L2 Fast Delivery Marine (FDM) |  |

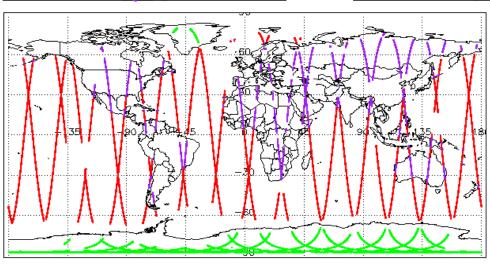
| Check                                     | Status                                 |
|---|--|
| Server check: science-pds.cryosat.esa.int | Nominal                                |
| Server check: calval-pds.cryosat.esa.int  | Nominal                                |
| Product Software Check                    | 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 |

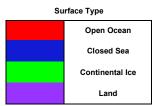
| Miss | Mission / Instrument News |                 |
|------|---------------------------|-----------------|
| 26-  | May-2016                  | None            |
| 27-  | May-2016                  | None            |
| 28-  | May-2016                  | Nothing planned |

# 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 |

# 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:

0

### 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.

Product Test Failed

CS\_OPER\_SIR1SIN\_0\_20160527T194907\_20160527T195410\_0001.HDR Percentage of processing errors detected greater than minimum acceptable threshold.

CS\_OPER\_SIR2SIN\_0\_20160527T214844\_20160527T215006\_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:

| Product   | Test Failed   |
|---|---|
| CS_OFFL_SIR_FDM_1B_20160527T132954_20160527T133025_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.

Number of products with errors: 0

#### 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_20160527T132954_20160527T133025_C001 | Attitude correction missing | The attitude has not been corrected  |
| CS_OFFL_SIR_FDM_1B_20160527T185436_20160527T190500_C001 |                             | The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo |
| CS_OFFL_SIR_FDM_1B_20160527T220551_20160527T221029_C001 |                             | 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.

Number of products with errors:

### 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: 34

| Product   | Test Failed                                      | Description   |
|---|--|---|
| CS_OFFL_SIR_FDM_220160527T004447_20160527T004540_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_220160527T010430_20160527T010947_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_220160527T022132_20160527T022214_C001 | Sea State Bias Correction                        | There is an error with the Sea State Bias Correction for one or more records                              |
| CS_OFFL_SIR_FDM_220160527T022604_20160527T024845_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_220160527T030316_20160527T033720_C001 | Sea State Bias Correction, Altimetric Wind Speed | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T040149_20160527T042442_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_220160527T044325_20160527T050032_C001 | Sea State Bias Correction, Altimetric Wind Speed | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |

| CS_OFFL_SIR_FDM_220160527T050513_20160527T051321_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_220160527T053226_20160527T054954_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T055131_20160527T060535_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_220160527T062221_20160527T063739_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T063941_20160527T064904_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_220160527T073417_20160527T074015_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_220160527T085341_20160527T092655_C001 | Sea State Bias Correction, Altimetric<br>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_220160527T094139_20160527T100556_C001 | Sea State Bias Correction                           | There is an error with the Sea State Bias Correction for one or more records                              |
| CS_OFFL_SIR_FDM_220160527T103818_20160527T104911_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_220160527T112002_20160527T114916_C001 | Sea State Bias Correction                           | There is an error with the Sea State Bias Correction for one or more records                              |
| CS_OFFL_SIR_FDM_220160527T121142_20160527T124434_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_220160527T135030_20160527T142413_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_220160527T143831_20160527T150027_C001 | Sea State Bias Correction                           | There is an error with the Sea State Bias Correction for one or more records                              |
| CS_OFFL_SIR_FDM_220160527T151516_20160527T151526_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T152858_20160527T160231_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_220160527T161847_20160527T165253_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T172442_20160527T174205_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_220160527T181511_20160527T182749_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T185436_20160527T190500_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_220160527T190640_20160527T192051_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T195542_20160527T195848_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_220160527T200012_20160527T200722_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T203605_20160527T205929_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_220160527T220327_20160527T220428_C001 | Sea State Bias Correction, Altimetric Wind Speed    | There is an error with the Altimetric Wind Speed and Sea State Bias<br>Correction for one or more records |
| CS_OFFL_SIR_FDM_220160527T221600_20160527T223938_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_220160527T225402_20160527T230459_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_220160527T235025_20160528T001101_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_220160527T132954_20160527T133025_C001 | Attitude correction missing | The attitude has not been corrected                            |
| CS_OFFL_SIR_FDM_220160527T185436_20160527T190500_C001 | Echo error                  | The Echo Rx1 Error flag is set, indicating a degraded raw echo |
| CS_OFFL_SIR_FDM_220160527T220551_20160527T221029_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:

22

| Product  | Test Failed              | Description   |
|--|--------------------------|---|
| CS_OFFL_SIR_FDM_220160527T004447_20160527T004540_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_220160527T030316_20160527T033720_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_220160527T040149_20160527T042442_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_220160527T044325_20160527T050032_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_2_20160527T050513_20160527T051321_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_220160527T062221_20160527T063739_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_220160527T063941_20160527T064904_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_220160527T073417_20160527T074015_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_220160527T085341_20160527T092655_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_220160527T103818_20160527T104911_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_2_20160527T121142_20160527T124434_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_220160527T135030_20160527T142413_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_220160527T152858_20160527T160231_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_220160527T161847_20160527T165253_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_220160527T172442_20160527T174205_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_220160527T181511_20160527T182749_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_220160527T185436_20160527T190500_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_220160527T195542_20160527T195848_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_220160527T200012_20160527T200722_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_220160527T203605_20160527T205929_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_220160527T220327_20160527T220428_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_220160527T221600_20160527T223938_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:

20

| roduct   | Test Failed   | Description   |
|--|---|---|
| S_OFFL_SIR_FDM_220160527T004447_20160527T004540_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. |
| S_OFFL_SIR_FDM_220160527T030316_20160527T033720_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. |
| S_OFFL_SIR_FDM_220160527T040149_20160527T042442_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. |
| S_OFFL_SIR_FDM_220160527T044325_20160527T050032_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. |
| S_OFFL_SIR_FDM_220160527T050513_20160527T051321_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. |
| S_OFFL_SIR_FDM_220160527T062221_20160527T063739_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. |
| S_OFFL_SIR_FDM_220160527T063941_20160527T064904_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. |
| S_OFFL_SIR_FDM_220160527T073417_20160527T074015_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. |
| S_OFFL_SIR_FDM_220160527T085341_20160527T092655_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. |
| S_OFFL_SIR_FDM_220160527T103818_20160527T104911_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. |
| S_OFFL_SIR_FDM_220160527T121142_20160527T124434_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. |
| S_OFFL_SIR_FDM_220160527T135030_20160527T142413_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. |
| S_OFFL_SIR_FDM_220160527T152858_20160527T160231_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. |
| S_OFFL_SIR_FDM_220160527T161847_20160527T165253_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. |
| S_OFFL_SIR_FDM_220160527T172442_20160527T174205_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. |
| S_OFFL_SIR_FDM_220160527T181511_20160527T182749_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. |
| S_OFFL_SIR_FDM_220160527T185436_20160527T190500_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. |
| S_OFFL_SIR_FDM_220160527T195542_20160527T195848_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. |
| S_OFFL_SIR_FDM_220160527T200012_20160527T200722_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. |
| S_OFFL_SIR_FDM_220160527T203605_20160527T205929_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_220160527T220327_20160527T220428_C001 |
|---|
| CS_OFFL_SIR_FDM_220160527T221600_20160527T223938_C001 |

CFI Backscatter Status Flag, SWH Squared Averaging Status Flag 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

indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records.

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:

| Product  | To ad Falls of                 | Berndullen  |
|--|--------------------------------|---|
| Product  | Test Failed                    | Description   The Ocean Retracking Quality Flag is set indicating the CFI Ocean   |
| CS_OFFL_SIR_FDM_220160527T004447_20160527T004540_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T012431_20160527T015802_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_2_20160527T022132_20160527T022214_C001   | Ocean Retracking Quality Flag  | The Ocean Retracking Quality Flag is set indicating the CFI Ocean   |
| C3_011 E_3IK_1 DIW_2201003271022132_201003271022214_C001 | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T022604_20160527T024845_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_220160527T030316_20160527T033720_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_2_20160527T040149_20160527T042442_C001   | Ocean Retracking Quality Flag  | The Ocean Retracking Quality Flag is set indicating the CFI Ocean   |
| 00_011   | Coodifficationing Quality Flag | Retracker was not successfully executed for one or more records.  The Ocean Retracking Quality Flag is set indicating the CFI Ocean |
| CS_OFFL_SIR_FDM_220160527T044325_20160527T050032_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T050513_20160527T051321_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_220160527T055131_20160527T060535_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 |
| CS_OFFL_SIR_FDM_220160527T062221_20160527T063739_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T063941_20160527T064904_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_220160527T071551_20160527T072810_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_220160527T073417_20160527T074015_C001    | Ocean Retracking Quality Flag  | The Ocean Retracking Quality Flag is set indicating the CFI Ocean   |
| CS_OFFE_SIN_FDWI_Z201003271073417_201003271074013_C001   | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  The Ocean Retracking Quality Flag is set indicating the CFI Ocean |
| CS_OFFL_SIR_FDM_220160527T080159_20160527T081651_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T085341_20160527T092655_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_220160527T094139_20160527T100556_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 |
| CS_OFFL_SIR_FDM_220160527T103818_20160527T104911_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T112002_20160527T114916_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_220160527T121142_20160527T124434_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_220160527T133542_20160527T133757_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 |
| CS_OFFL_SIR_FDM_220160527T135030_20160527T142413_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T143831_20160527T150027_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_220160527T150602_20160527T150745_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_220160527T152858_20160527T160231_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 |
| CS_OFFL_SIR_FDM_220160527T161847_20160527T165253_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T170921_20160527T172000_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_220160527T172442_20160527T174205_C001    | Ocean Retracking Quality Flag  | The Ocean Retracking Quality Flag is set indicating the CFI Ocean   |
| CS OFFI SID FDM 2 20460F27T47F0F4 20460F27T4842F6 C004   | Ocean Retrocking Quality Flog  | Retracker was not successfully executed for one or more records.  The Ocean Retracking Quality Flag is set indicating the CFI Ocean |
| CS_OFFL_SIR_FDM_220160527T175951_20160527T181256_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  The Ocean Retracking Quality Flag is set indicating the CFI Ocean |
| CS_OFFL_SIR_FDM_220160527T181511_20160527T182749_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T185436_20160527T190500_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_2_20160527T190640_20160527T192051_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 |
| CS_OFFL_SIR_FDM_220160527T193701_20160527T193759_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T194442_20160527T194906_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_220160527T195542_20160527T195848_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_2_20160527T200012_20160527T200722_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 |
| CS_OFFL_SIR_FDM_220160527T203605_20160527T205929_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
| CS_OFFL_SIR_FDM_220160527T211423_20160527T214057_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_220160527T220327_20160527T220428_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_220160527T221600_20160527T223938_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 |
| CS_OFFL_SIR_FDM_220160527T235025_20160528T001101_C001    | Ocean Retracking Quality Flag  | Retracker was not successfully executed for one or more records.  |
|  |                                |   |