

IDEAS+ Daily Report for FDM data:

04/03/2019

Nominal

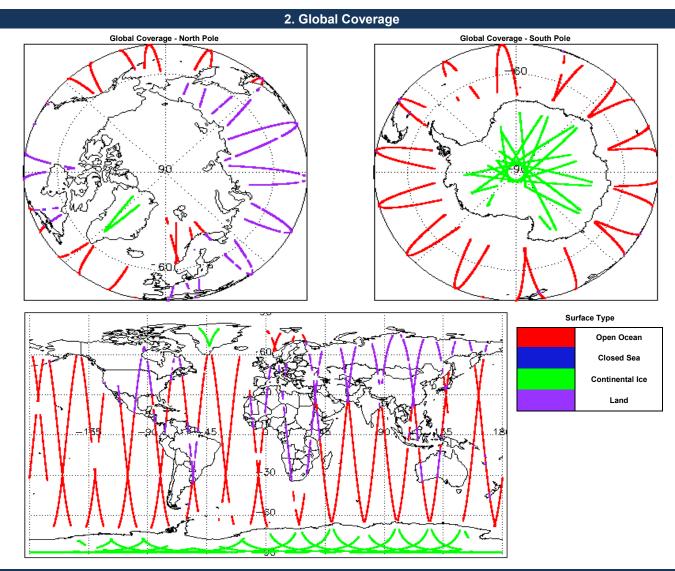
See Section 6.4

| 1. Overview | | | | |
|-------------------------|--------------------------------------|---|--|-----------------|
| Papart Braduction Data | 05-Mar-2019 | | Check | Status |
| Report Production Date: | 05-Mar-2019 | Server check: science-pds.cryosat.esa.int | Nominal | |
| Processor Used: | CryoSat Ice Processor | | Server check: calval-pds.cryosat.esa.int | Nominal |
| | | | Product Software Check | Nominal |
| Data Used: | L1 and L2 Fast Delivery Marine (FDM) | | Product Format Check | Nominal |
| | Mode and L0 Data | | Product Header Analysis | See Section 4.2 |
| | | | Star Tracker Usage Check | See Section 5.3 |
| | | | Calibration Usage Check | Nominal |
| | | | | |

Auxiliary Data File Usage Check

Auxiliary Correction Error Check

| | Measurement Confidence Data Check | See Section 5.7, 6.5, 6.6, 6.7 and 6.8 |
|-----------------------------|-----------------------------------|--|
| | | |
| Mission / Instrument News | | |
| 03-Mar-2019 None | | |
| 04-Mar-2019 None | | |
| 05-Mar-2019 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 |
| 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:

0

| For all products, a series of pre-defined checks are carried out on the MPH and | SPH in order to identify any inconsisten | cies and/or errors raised by the processing chain. |
|--|--|---|
| Number of products with errors: 3 | | |
| Product | Test Failed | |
| CS_OPER_SIR1LRM_0_20190304T094608_20190304T101359_0001.DBL | | errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020190304T111225_20190304T111441_0001.HDR CS_OPER_SIR1SIN_020190304T102549_20190304T102615_0001.HDR | | errors detected greater than minimum acceptable threshold. errors detected greater than minimum acceptable threshold. |
| | | |
| 5. Lev | vel 1B FDM Data Quality | / Check |
| 5.1 L1B FDM Product Format Check | | |
| Each product, retrieved and unpacked from the science server, is checked to er | nsure 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 inconsisten | cies and/or errors raised by the ground-segment processing chain. |
| Number of products with errors: 0 | | |
| 5.3 L1B FDM Star Tracker Usage Check | | |
| Each product is checked in order to ensure a valid star tracker file has been use | ed in processing. | |
| Number of products with errors: 4 | | |
| Product | Test Failed | |
| CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 | | n the processing of this product |
| CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 | | n the processing of this product |
| CS_OFFL_SIR_FDM_1B_20190304T115643_20190304T115714_C001 | | n the processing of this product |
| CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 | No Star Tracker file used in | n 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 t | he 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 measureme | ent record. The bit value of this flag indication | ates 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 m | peasurement record. The hit value of this | flam in diastan any making a share a sh |
| | leasurement record. The bit value of this | flag indicates any problems when set. |
| | | tiag indicates any problems when set. |
| Number of products with errors: 5 | | |
| Number of products with errors: 5 Product | Test Failed | Description The attitude has not been corrected |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 | | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is se |
| | Test Failed Attitude correction missing | Description The attitude has not been corrected |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 | Test Failed Attitude correction missing Echo error, TRK echo error | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is se indicating a degraded echo |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is set indicating a degraded echo The attitude has not been corrected |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 CS_OFFL_SIR_FDM_1B_20190304T115714_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is see indicating a degraded echo The attitude has not been corrected |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 CS_OFFL_SIR_FDM_1B_20190304T115714_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing Attitude correction missing | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is see indicating a degraded echo The attitude has not been corrected |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101810_C001 CS_OFFL_SIR_FDM_1B_20190304T115714_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is see indicating a degraded echo The attitude has not been corrected |
| Number of products with errors: 5 Product | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing Echo error Attitude correction missing Echo error Attitude correction missing Echo error Echo error Attitude correction missing Echo error Echo error | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is see indicating a degraded echo The attitude has not been corrected Check |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T115643_20190304T115714_C001 CS_OFFL_SIR_FDM_1B_20190304T1152005_20190304T1152255_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 6. Lee 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to error | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing Echo error Attitude correction missing Echo error Attitude correction missing Echo error Echo error Attitude correction missing Echo error Echo error | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is see indicating a degraded echo The attitude has not been corrected Check |
| Number of products with errors: 5 Product | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing Attitude correction missing Attitude correction missing Attitude correction missing Echo error Attitude correction missing Echo error Attitude correction missing Echo error Echo error Attitude correction missing Echo error Echo error | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is set indicating a degraded echo The attitude has not been corrected Check |
| Number of products with errors: 5 Product CS_OFFL_SIR_FDM_1B_20190304T083744_20190304T084102_C001 CS_OFFL_SIR_FDM_1B_20190304T101413_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T101718_20190304T101515_C001 CS_OFFL_SIR_FDM_1B_20190304T115643_20190304T115714_C001 CS_OFFL_SIR_FDM_1B_20190304T1152005_20190304T1152255_C001 CS_OFFL_SIR_FDM_1B_20190304T152005_20190304T152255_C001 6. Lee 6.1 L2 FDM Product Format Check Each product, retrieved and unpacked from the science server, is checked to error | Test Failed Attitude correction missing Echo error, TRK echo error Attitude correction missing evel 2 FDM Data Quality Insure it consists of both an XML header | Description The attitude has not been corrected The tracking echo has returned an error and the Rx1 Echo Error flag is see indicating a degraded echo The attitude has not been corrected flie (.HDR) and a binary product file (.DBL). |

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: 0

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.

37

Number of products with errors:

| Product |
|---|
| CS_OFFL_SIR_FDM_220190303T235015_20190304T001250_C001 |
| CS_OFFL_SIR_FDM_220190304T003712_20190304T004057_C001 |
| CS_OFFL_SIR_FDM_220190304T013600_20190304T020206_C001 |
| CS_OFFL_SIR_FDM_220190304T022118_20190304T025120_C001 |
| CS_OFFL_SIR_FDM_220190304T025442_20190304T025505_C001 |
| CS_OFFL_SIR_FDM_220190304T040356_20190304T041551_C001 |
| CS_OFFL_SIR_FDM_220190304T042211_20190304T043313_C001 |
| CS_OFFL_SIR_FDM_220190304T044836_20190304T050338_C001 |
| CS_OFFL_SIR_FDM_220190304T050539_20190304T052053_C001 |
| CS_OFFL_SIR_FDM_220190304T054315_20190304T054918_C001 |
| CS_OFFL_SIR_FDM_220190304T062811_20190304T065105_C001 |
| CS_OFFL_SIR_FDM_220190304T073009_20190304T075422_C001 |
| CS_OFFL_SIR_FDM_220190304T080701_20190304T083638_C001 |
| CS_OFFL_SIR_FDM_220190304T090551_20190304T091546_C001 |
| CS_OFFL_SIR_FDM_220190304T094608_20190304T101359_C001 |
| CS_OFFL_SIR_FDM_220190304T102238_20190304T102318_C001 |
| CS_OFFL_SIR_FDM_220190304T102333_20190304T102437_C001 |
| CS_OFFL_SIR_FDM_220190304T103714_20190304T111224_C001 |
| CS_OFFL_SIR_FDM_220190304T122840_20190304T125143_C001 |
| CS_OFFL_SIR_FDM_220190304T130343_20190304T131714_C001 |
| CS_OFFL_SIR_FDM_220190304T132652_20190304T133135_C001 |
| CS_OFFL_SIR_FDM_220190304T135633_20190304T142946_C001 |
| CS_OFFL_SIR_FDM_220190304T144323_20190304T144454_C001 |
| CS_OFFL_SIR_FDM_220190304T144753_20190304T151807_C001 |
| CS_OFFL_SIR_FDM_220190304T153820_20190304T155138_C001 |
| CS_OFFL_SIR_FDM_220190304T155315_20190304T160904_C001 |
| CS_OFFL_SIR_FDM_220190304T164148_20190304T165310_C001 |
| CS_OFFL_SIR_FDM_220190304T171544_20190304T172731_C001 |
| CS_OFFL_SIR_FDM_220190304T172853_20190304T173136_C001 |
| CS_OFFL_SIR_FDM_220190304T180135_20190304T182524_C001 |
| CS_OFFL_SIR_FDM_220190304T194023_20190304T200932_C001 |
| CS_OFFL_SIR_FDM_220190304T204014_20190304T210654_C001 |
| CS_OFFL_SIR_FDM_220190304T213715_20190304T215432_C001 |
| CS_OFFL_SIR_FDM_220190304T222056_20190304T222721_C001 |
| CS_OFFL_SIR_FDM_220190304T225911_20190304T233313_C001 |
| CS_OFFL_SIR_FDM_220190304T234702_20190304T234757_C001 |
| CS_OFFL_SIR_FDM_220190304T235434_20190304T235506_C001 |

| Test Failed Description See State Bias Correction, Alimetric There is an error with the Sea State Bias Correction for one or more records See State Bias Correction, Alimetric There is an error with the Alimetric Wind Speed and Sea State Bias See State Bias Correction, Alimetric There is an error with the Alimetric Wind Speed and Sea State Bias See State Bias Correction, Alimetric There is an error with the Alimetric Wind Speed and Sea State Bias See State Bias Correction, Alimetric There is an error with the Alimetric Wind Speed and Sea State Bias See State Bias Correction, Alimetric There is an error with the Alimetric Wind Speed and Sea State Bias See State Bias Correction, Alimetric There is an error with the Alimetric Wind Speed and Sea State Bias See State Bias Correction, Alimetric There is an error with the Sea State Bias Correction for one or more records Sea State Bias Correction, Alimetric There is an error with the Sea State Bias Correction for one or more records Sea State Bias Correction, Alimetric There is an error with the Sea State Bias Correction for one or more records Sea State Bias Correction, Alimetric There is an error with the Sea State Bias Correction for one or more records Sea State Bias Correction, Alimetric There is an error with the Sea State Bias Correction for one or more records Se | _ | I= |
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| | Sea State Bias Correction, Altimetric | |
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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: 5

Test Failed Description Product CS_OFFL_SIR_FDM_2__20190304T083744_20190304T084102_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_FDM_2__20190304T101413_20190304T101515_C001 Echo error The Echo Rx1 Error flag is set, indicating a degraded raw echo CS_OFFL_SIR_FDM_2__20190304T101718_20190304T101810_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_FDM_2__20190304T115643_20190304T115714_C001 Attitude correction missing The attitude has not been corrected CS_OFFL_SIR_FDM_2__20190304T152005_20190304T152255_C001 Attitude correction missing The attitude has not been corrected

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: 23

| Number of products with errors: 23 | | |
|---|--------------------------|---|
| Product | Test Failed | Description |
| CS_OFFL_SIR_FDM_220190304T013600_20190304T020206_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_220190304T040356_20190304T041551_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_220190304T042211_20190304T043313_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_220190304T044836_20190304T050338_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_220190304T050539_20190304T052053_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_220190304T054315_20190304T054918_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_220190304T094608_20190304T101359_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_220190304T102238_20190304T102318_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_220190304T103714_20190304T111224_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_220190304T122840_20190304T125143_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_220190304T135633_20190304T142946_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_220190304T153820_20190304T155138_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_220190304T155315_20190304T160904_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_220190304T164148_20190304T165310_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_220190304T171544_20190304T172731_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_220190304T172853_20190304T173136_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_220190304T180135_20190304T182524_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_220190304T194023_20190304T200932_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_220190304T204014_20190304T210654_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_220190304T213715_20190304T215432_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_220190304T222056_20190304T222721_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_220190304T225911_20190304T233313_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_220190304T235434_20190304T235506_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

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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 |
|---|---|---|
| | 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_220190304T040356_20190304T041551_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 | 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_220190304T044836_20190304T050338_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_220190304T050539_20190304T052053_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_220190304T054315_20190304T054918_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_220190304T094608_20190304T101359_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_220190304T102238_20190304T102318_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_220190304T103714_20190304T111224_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_220190304T122840_20190304T125143_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_220190304T135633_20190304T142946_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_220190304T153820_20190304T155138_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_220190304T155315_20190304T160904_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_220190304T164148_20190304T165310_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_220190304T171544_20190304T172731_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_220190304T172853_20190304T173136_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_220190304T180135_20190304T182524_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_220190304T194023_20190304T200932_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_220190304T204014_20190304T210654_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_220190304T213715_20190304T215432_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_220190304T222056_20190304T222721_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_220190304T225911_20190304T233313_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_220190304T235434_20190304T235506_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. |
| | | |

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 CS_OFFL_SIR_FDM_2__20190303T235015_20190304T001250_C001 CS OFFL SIR FDM 2 20190304T005655 20190304T010144 C001 CS_OFFL_SIR_FDM_2__20190304T013600_20190304T020206_C001 CS_OFFL_SIR_FDM_2__20190304T022118_20190304T025120_C001 CS_OFFL_SIR_FDM_2__20190304T033150_20190304T033854_C001 CS_OFFL_SIR_FDM_2__20190304T040356_20190304T041551_C001 CS_OFFL_SIR_FDM_2__20190304T042211_20190304T043313_C001 CS OFFL SIR FDM 2 20190304T044836 20190304T050338 C001 CS_OFFL_SIR_FDM_2__20190304T050539_20190304T052053_C001 CS_OFFL_SIR_FDM_2__20190304T054315_20190304T054918_C001 CS OFFL SIR FDM 2 20190304T055850 20190304T061504 C001 CS_OFFL_SIR_FDM_2__20190304T062811_20190304T065105_C001 CS_OFFL_SIR_FDM_2__20190304T071654_20190304T071749_C001 CS_OFFL_SIR_FDM_2__20190304T073009_20190304T075422_C001 CS_OFFL_SIR_FDM_2__20190304T090551_20190304T091546_C001 CS OFFL SIR FDM 2 20190304T094608 20190304T101359 C001 CS_OFFL_SIR_FDM_2__20190304T102238_20190304T102318_C001 CS_OFFL_SIR_FDM_2__20190304T103714_20190304T111224_C001 CS OFFL SIR FDM 2 20190304T121718 20190304T122554 C001 CS_OFFL_SIR_FDM_2__20190304T122840_20190304T125143_C001 CS_OFFL_SIR_FDM_2__20190304T130343_20190304T131714_C001 CS_OFFL_SIR_FDM_2_20190304T132652_20190304T133135_C001 CS_OFFL_SIR_FDM_2__20190304T135633_20190304T142946_C001 CS OFFL SIR FDM 2 20190304T144753 20190304T151807 C001

Test Failed Ocean Retracking Quality Flag Ocean Retracking Quality Flag

Description 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.

| CS_OFFL_SIR_FDM_220190304T153820_20190304T155138_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_220190304T155315_20190304T160904_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_220190304T162520_20190304T163529_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_220190304T164148_20190304T165310_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_220190304T171544_20190304T172731_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_220190304T172853_20190304T173136_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_220190304T180135_20190304T182524_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_220190304T182632_20190304T183515_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_220190304T194023_20190304T200932_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_220190304T204014_20190304T210654_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_220190304T211948_20190304T213138_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_220190304T213715_20190304T215432_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_220190304T222056_20190304T222721_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_220190304T225911_20190304T233313_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_220190304T235434_20190304T235506_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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7. QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | Nb. Products | Nb. QCC Reports | Nb. Valid | Nb. Warnings | Nb. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR1LRM_0_ | 169 | 169 | 169 | 0 | 0 |
| SIR1SAR_0_ | 146 | 146 | 146 | 0 | 0 |
| SIR1SIN_0_ | 110 | 110 | 110 | 0 | 0 |
| SIR2SIN_0_ | 115 | 115 | 115 | 0 | 0 |
| SIR_FDM_1B | 169 | 169 | 169 | 0 | 0 |
| SIR_FDM_2 | 167 | 167 | 167 | 0 | 0 |

| 7.1 QCC Errors | |
|--|---|
| Number of QCC reports with errors: | 0 |
| 7.2 QCC Warnings | |
| Number of QCC reports with warnings | 0 |
| 7.3 Missing QCC Reports | |
| Number of products with missing QCC reports: | 0 |