

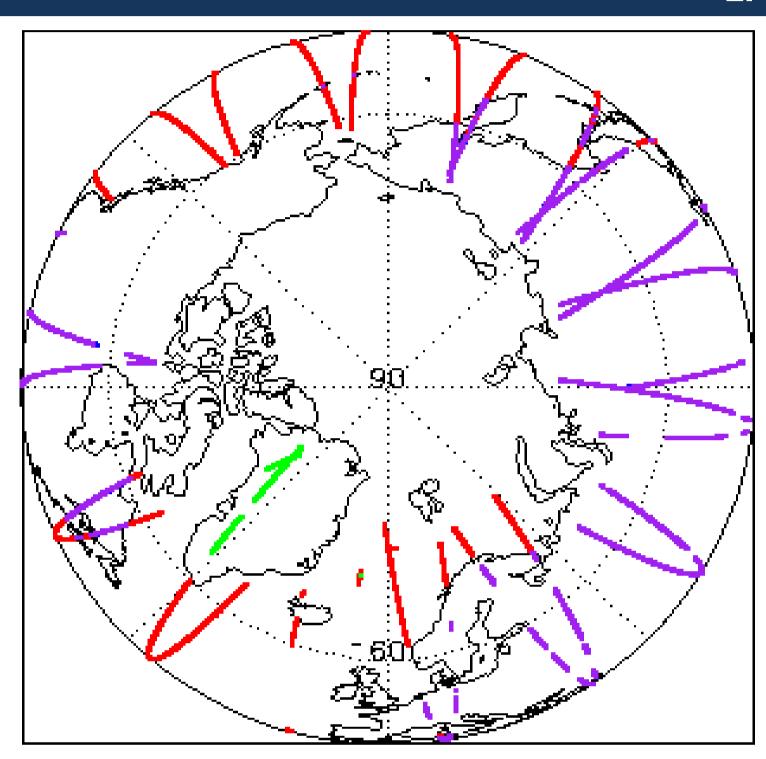
1. Overview

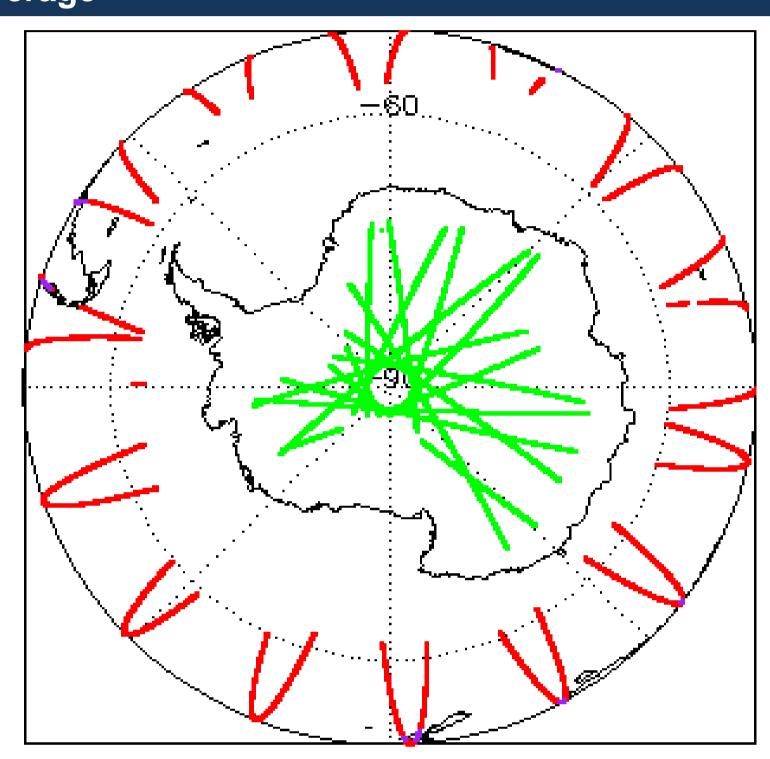
| Report Production Date: | 09-Nov-2020 |
|-------------------------|--|
| Processor Used: | CryoSat Ice Processor |
| Data Used: | L1 and L2 Fast Delivery Marine (FDM) Mode and L0 Data |

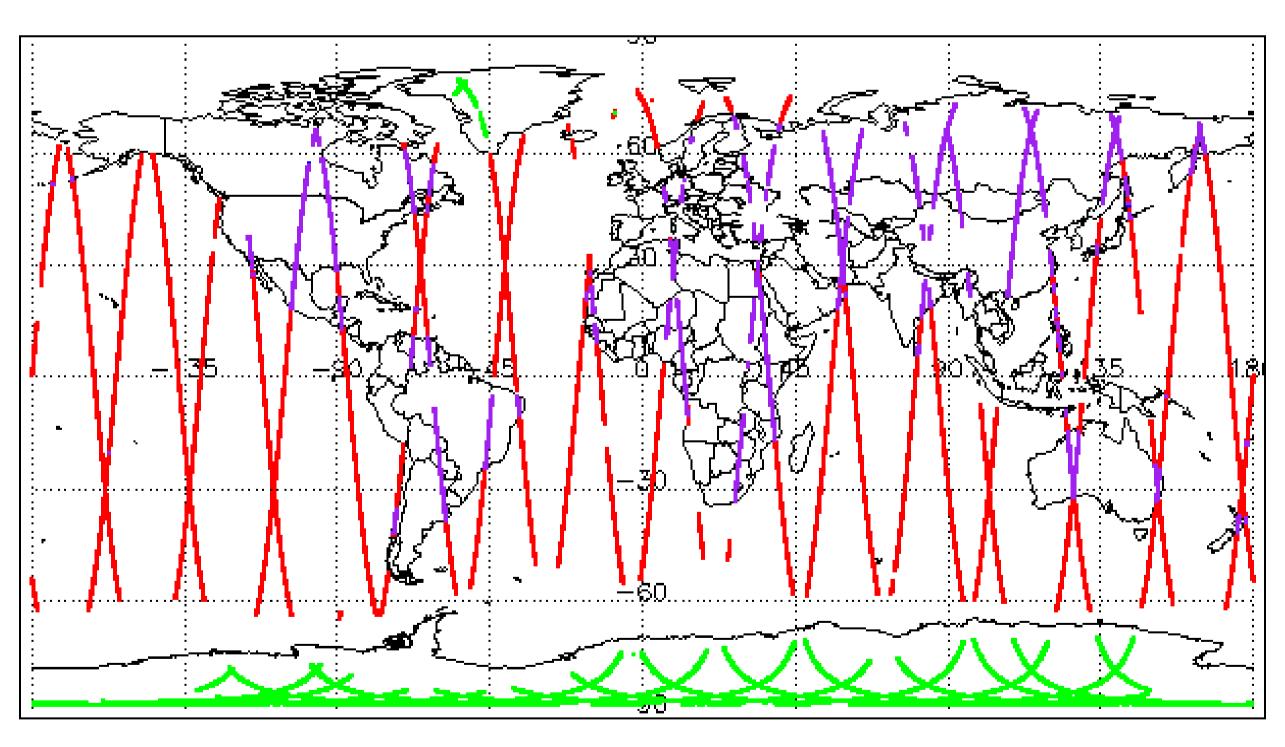
| | · |
|---|--|
| Check | Status |
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | Nominal |
| Star Tracker Usage Check | See Section 5.3 |
| Calibration Usage Check | Nominal |
| Auxiliary Data File Usage Check | See Section 5.5 and 6.3 |
| 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 |
| QCC Error/ Warning Check | See Section 7.1 and 7.2 |

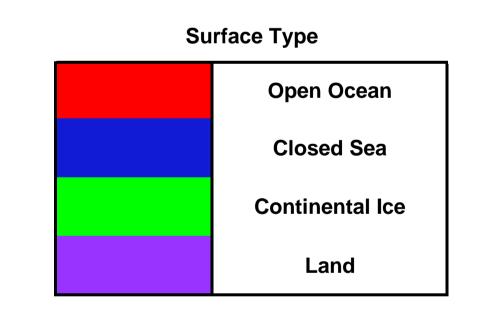
| Mission / Instru | ument News |
|------------------|-----------------|
| 07-Nov-2020 | None |
| 08-Nov-2020 | None |
| 09-Nov-2020 | Nothing planned |

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).

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:

20

| Product | Test Failed |
|---|---|
| CS_OPER_SIR1LRM_020201108T042315_20201108T045651_0001.DBL | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1LRM_020201108T065323_20201108T070323_0001.DBL | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1LRM_020201108T081730_20201108T082258_0001.DBL | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1LRM_020201108T083401_20201108T084632_0001.DBL | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1LRM_020201108T221952_20201108T222138_0001.DBL | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T064936_20201108T065323_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T071730_20201108T072458_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T111036_20201108T111851_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T140615_20201108T141402_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T145114_20201108T145244_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T154253_20201108T154322_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T155557_20201108T155715_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T172055_20201108T173005_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T173608_20201108T173859_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SAR_020201108T194644_20201108T195343_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020201108T023847_20201108T024713_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR1SIN_020201108T072744_20201108T073153_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020201108T050043_20201108T050357_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020201108T154322_20201108T154429_0001.HDR | Percentage of processing errors detected greater than minimum acceptable threshold. |
| CS_OPER_SIR2SIN_020201108T195343_20201108T195618_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: 16

| Test Failed |
|---|
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
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| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| |

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_20201108T022118_20201108T022643_C001 | No Star Tracker file used in the processing of this product |
| CS_OFFL_SIR_FDM_1B_20201108T040307_20201108T040408_C001 | No Star Tracker file used in the processing of this product |
| CS_OFFL_SIR_FDM_1B_20201108T072458_20201108T072512_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.

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_20201108T022118_20201108T022643_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20201108T040307_20201108T040408_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20201108T072458_20201108T072512_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_1B_20201108T223401_20201108T225012_C001 | Block degraded, Echo error, TRK echo error | Data block degraded and not processed |

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:

| CS_OFFL_SIR_FDM_2_20201108T022643_20201108T022900_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T040408_20201108T040408_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T072458_20201108T072512_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T072512_20201108T072608_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T105665_20201108T110000_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131010_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) | Product | Test Failed |
|--|---|---|
| CS_OFFL_SIR_FDM_2_20201108T040307_20201108T040408_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orb | CS_OFFL_SIR_FDM_220201108T022118_20201108T022643_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T040408_20201108T072512_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T072512_20201108T072512_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T072512_20201108T072608_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T124914_20201108T13100_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T131055_20201108T132026_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132048_20201108T1320416_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T135403_20201108T13555_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T135403_20201108T13553_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T022643_20201108T022900_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T072458_20201108T072512_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T072512_20201108T072608_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T124914_20201108T131010_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T131055_20201108T132026_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132048_20201108T135355_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T135403_20201108T135522_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T040307_20201108T040408_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T072512_20201108T072608_C001.DBL CS_OFFL_SIR_FDM_2_20201108T105655_20201108T110000_C001.DBL CS_OFFL_SIR_FDM_2_20201108T124914_20201108T131010_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131057_20201108T132043_ | CS_OFFL_SIR_FDM_220201108T040408_20201108T040429_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T105655_20201108T131010_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131057_20201108T1311010_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131055_20201108T132026_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131055_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132555_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132055_20201108T135555_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135555_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL | CS_OFFL_SIR_FDM_220201108T072458_20201108T072512_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T124914_20201108T131010_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132043_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T072512_20201108T072608_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T131057_20201108T131154_C001.DBL CS_OFFL_SIR_FDM_2_20201108T131655_20201108T132026_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132757_20201108T135555_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135555_20201108T135535_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135555_20201108T135535_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135555_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL | CS_OFFL_SIR_FDM_220201108T105655_20201108T110000_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T131655_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132757_20201108T135555_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135403_20201108T135522_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135535_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL | CS_OFFL_SIR_FDM_220201108T124914_20201108T131010_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T132033_20201108T132043_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132757_20201108T135355_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135403_20201108T135522_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL | CS_OFFL_SIR_FDM_220201108T131057_20201108T131154_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T132048_20201108T132416_C001.DBL CS_OFFL_SIR_FDM_2_20201108T132757_20201108T135355_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135403_20201108T135522_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL CS_OFFL_SIR_FDM_2_20201108T135525_20201108T135533_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T131655_20201108T132026_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T132757_20201108T135355_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T132033_20201108T132043_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_2_20201108T135403_20201108T135522_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T132048_20201108T132416_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_220201108T135525_20201108T135533_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T132757_20201108T135355_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| | CS_OFFL_SIR_FDM_220201108T135403_20201108T135522_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS OFFI SIR FDM 2 20201108T135536 20201108T135540 C001 DRI FOS Predicted Orbit (MPL OPRPRE) used instead of the DOPIS Navigator Orbit (DOP NAV) | CS_OFFL_SIR_FDM_220201108T135525_20201108T135533_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| C3_OFFEDIX_FDIX_22020 F100 F135350_2020 F100 F135349_C00 F.DBL F1C3 F1edicted Offit (IMFL_ORDFIXL) used instead of the DOMS Navigator Offit (DOX_NAV). | CS_OFFL_SIR_FDM_220201108T135536_20201108T135549_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_220201108T135553_20201108T135558_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T135553_20201108T135558_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_220201108T234829_20201108T234838_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T234829_20201108T234838_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |
| CS_OFFL_SIR_FDM_220201108T235257_20201108T235259_C001.DBL FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). | CS_OFFL_SIR_FDM_220201108T235257_20201108T235259_C001.DBL | FOS Predicted Orbit (MPL_ORBPRE) used instead of the DORIS Navigator Orbit (DOR_NAV). |

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.

| Product | Test Failed | Description |
|---|--|--|
| CS_OFFL_SIR_FDM_220201108T004934_20201108T005026_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_220201108T010520_20201108T013840_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_220201108T024713_20201108T024956_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_220201108T035213_20201108T035749_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_220201108T035758_20201108T035840_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_220201108T042315_20201108T045651_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_220201108T052559_20201108T052743_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_220201108T053648_20201108T053931_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_220201108T060150_20201108T061201_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_220201108T061447_20201108T063603_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_220201108T070511_20201108T071228_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_220201108T071324_20201108T071730_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_220201108T072512_20201108T072608_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_220201108T073933_20201108T074821_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_220201108T074910_20201108T081503_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_220201108T083401_20201108T084632_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_220201108T084654_20201108T090418_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_220201108T091917_20201108T091941_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_220201108T092156_20201108T092427_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_220201108T092542_20201108T093722_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_220201108T101106_20201108T101909_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_220201108T102759_20201108T104415_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_220201108T114846_20201108T122225_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_220201108T124914_20201108T131010_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_220201108T132757_20201108T135355_C001 | Sea State Bias Correction | There is an error with the Sea State Bias Correction for one or more records |
| CS_OFFL_SIR_FDM_220201108T142321_20201108T145114_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_220201108T150822_20201108T154116_C001 | Sea State Bias Correction | There is an error with the Sea State Bias Correction for one or more records |
| CS_OFFL_SIR_FDM_220201108T160554_20201108T160732_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_220201108T164733_20201108T172055_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_220201108T173313_20201108T173431_C001 | Sea State Bias Correction | There is an error with the Sea State Bias Correction for one or more records |
| CS_OFFL_SIR_FDM_220201108T175237_20201108T180826_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_220201108T182606_20201108T190030_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_220201108T192349_20201108T192823_C001 | Sea State Bias Correction | There is an error with the Sea State Bias Correction for one or more records |
| CS_OFFL_SIR_FDM_220201108T200547_20201108T201918_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_220201108T202718_20201108T203853_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_220201108T211331_20201108T212739_C001 | Sea State Bias Correction | There is an error with the Sea State Bias Correction for one or more records |
| CS_OFFL_SIR_FDM_220201108T214431_20201108T215919_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_220201108T220147_20201108T221110_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_220201108T223401_20201108T225012_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_220201108T225618_20201108T230255_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 |

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_220201108T022118_20201108T022643_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220201108T040307_20201108T040408_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220201108T072458_20201108T072512_C001 | Attitude correction missing | The attitude has not been corrected |
| CS_OFFL_SIR_FDM_220201108T223401_20201108T225012_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.

| Product | Test Failed | Description |
|---|--------------------------|---|
| CS_OFFL_SIR_FDM_220201108T004934_20201108T005026_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_220201108T010520_20201108T013840_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_220201108T035213_20201108T035749_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_220201108T042315_20201108T045651_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_220201108T052559_20201108T052743_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_220201108T060150_20201108T061201_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_220201108T061447_20201108T063603_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_220201108T070511_20201108T071228_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_220201108T071324_20201108T071730_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_220201108T073933_20201108T074821_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_220201108T074910_20201108T081503_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_220201108T083401_20201108T084632_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_220201108T084654_20201108T090418_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_220201108T092156_20201108T092427_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_220201108T092542_20201108T093722_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_220201108T101106_20201108T101909_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_220201108T102759_20201108T104415_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_220201108T114846_20201108T122225_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_220201108T124914_20201108T131010_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_220201108T142321_20201108T145114_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_220201108T160554_20201108T160732_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_220201108T164733_20201108T172055_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_220201108T182606_20201108T190030_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_220201108T200547_20201108T201918_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_220201108T202718_20201108T203853_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_220201108T214431_20201108T215919_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_220201108T220147_20201108T221110_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_220201108T223401_20201108T225012_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_220201108T225618_20201108T230255_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.

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_FDM_220201108T004934_20201108T005026_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_220201108T010520_20201108T013840_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_220201108T035213_20201108T035749_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_220201108T042315_20201108T045651_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_220201108T052559_20201108T052743_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_220201108T060150_20201108T061201_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_220201108T061447_20201108T063603_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_220201108T070511_20201108T071228_C001 | CFI Backscatter Status Flag, SWH | 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 |
|--|---|---|
| CO_OTTL_OTN_T DIVI_ZZ0Z0T1001070311_Z0Z0T10010712Z0_C001 | Squared Averaging Status Flag | ignored for these records. The master fail flag is set by the CFI call, for one or more records, |
| CS_OFFL_SIR_FDM_220201108T071324_20201108T071730_C001 | CFI Backscatter Status Flag, SWH Squared Averaging Status Flag | indicating the values stored in fields #41, #42, #43 and #44 should be ignored for these records. |
| CS_OFFL_SIR_FDM_220201108T073933_20201108T074821_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_220201108T074910_20201108T081503_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_220201108T083401_20201108T084632_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_220201108T084654_20201108T090418_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_220201108T092156_20201108T092427_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_220201108T092542_20201108T093722_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_220201108T101106_20201108T101909_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_220201108T102759_20201108T104415_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_220201108T114846_20201108T122225_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_220201108T124914_20201108T131010_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_220201108T142321_20201108T145114_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_220201108T160554_20201108T160732_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_220201108T164733_20201108T172055_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_220201108T182606_20201108T190030_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_220201108T200547_20201108T201918_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_220201108T202718_20201108T203853_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_220201108T214431_20201108T215919_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_220201108T220147_20201108T221110_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_220201108T223401_20201108T225012_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_220201108T225618_20201108T230255_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.

41

| Product | Test Failed | Description |
|---|-------------------------------|--|
| CS_OFFL_SIR_FDM_220201108T001508_20201108T003638_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_220201108T003641_20201108T003811_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_220201108T004934_20201108T005026_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_220201108T010520_20201108T013840_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_220201108T015447_20201108T021832_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_220201108T035213_20201108T035749_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_220201108T042315_20201108T045651_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_220201108T052559_20201108T052743_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_220201108T053648_20201108T053931_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_220201108T060150_20201108T061201_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_220201108T061447_20201108T063603_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_220201108T070511_20201108T071228_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_220201108T071324_20201108T071730_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_220201108T073933_20201108T074821_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_220201108T074910_20201108T081503_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_220201108T083401_20201108T084632_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_220201108T084654_20201108T090418_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_220201108T092156_20201108T092427_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_220201108T092542_20201108T093722_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_220201108T093926_20201108T095434_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_220201108T101106_20201108T101909_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_220201108T102759_20201108T104415_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_220201108T111851_20201108T113309_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_220201108T114846_20201108T122225_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_220201108T124914_20201108T131010_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_220201108T132757_20201108T135355_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_220201108T142321_20201108T145114_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_220201108T155333_20201108T155557_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_220201108T160554_20201108T160732_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_220201108T164733_20201108T172055_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_220201108T182606_20201108T190030_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_220201108T192349_20201108T192823_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_220201108T192905_20201108T194644_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_220201108T200547_20201108T201918_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_220201108T202718_20201108T203853_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_220201108T205414_20201108T211154_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_220201108T211331_20201108T212739_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_220201108T214431_20201108T215919_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_220201108T220147_20201108T221110_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_220201108T223401_20201108T225012_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_220201108T225618_20201108T230255_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. |

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_ | 191 | 191 | 186 | 5 | 0 |
| SIR1SAR_0_ | 110 | 110 | 109 | 1 | 0 |
| SIR1SIN_0_ | 106 | 106 | 106 | 0 | 0 |
| SIR2SIN_0_ | 109 | 109 | 109 | 0 | 0 |
| SIR_FDM_1B | 191 | 191 | 3 | 0 | 188 |
| SIR_FDM_2 | 186 | 186 | 128 | 58 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

188

Total number of occurrences of each error

| Product Type | UVOB | - | - | - | - | • | - | - | - | - | - |
|---------------------|------|---|---|---|---|---|---|---|---|---|---|
| SIR_FDM_1B | 188 | | | | | | | | | | |

| Test Description Key: | | | | | |
|-----------------------|---------------------|--|--|--|--|
| Abbreviation | Test name | Details | | | |
| UVOB | UnitVectorOrBlank_6 | The three array elements should form a unit vector (using a scale factor of 10^-6) | | | |

7.2 QCC Warnings

Number of QCC reports with warnings

200

Total number of occurrences of each warning

| | | | | | TOTAL HAILIBOL O | i occurronoco | i oacii waiiiiig | | | | |
|--------------|-------|---------|----|--------|------------------|---------------|------------------|--------|-------|--------|---|
| Product Type | MVSIO | MVSIOFD | QF | RACOGO | RBSZO | RBSZOFD | RDTCO | RSSBCO | RWTCO | RCMDSR | - |
| SIR1LRM_0_ | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR1SAR_0_ | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_FDM_2_ | 40 | 45 | 0 | 2 | 42 | 50 | 2 | 9 | 2 | 2 | |

| Test Description Key | Test Description Key: | | | | | | | |
|-----------------------------|-------------------------------------|---|--|--|--|--|--|--|
| Abbreviation | Test name | Details | | | | | | |
| MVSIO | MissingValueShortIntOcean | The value should not be a 'missing value' for surface type 0 only | | | | | | |
| MVSIOFD | MissingValueShortIntOceanFD2 | The value should not be a 'missing value' for surface type 0 only | | | | | | |
| QF | QualityFlag | The Quality Flag | | | | | | |
| RACOGO | RangeAltitudeCOGOcean | The CoG altitude should be between 710000000mm and 760000000mm for surface type = ocean | | | | | | |
| RBSZO | RangeBackscatterSigmaZeroOcean | The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean | | | | | | |
| RBSZOFD | RangeBackscatterSigmaZeroOceanFD2 | The backscatter sigma zero should be between 700 and 3000 (or missing) for surface type = ocean | | | | | | |
| RDTCO | RangeDryTroposphericCorrectionOcean | The Dry tropospheric correction should be between -2500mm and -1900mm (or missing) for surface type = ocean | | | | | | |
| RSSBCO | RangeSeaStateBiasCorrectionOcean | The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean | | | | | | |

7.3 Missing QCC Reports

Number of products with missing QCC reports:

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