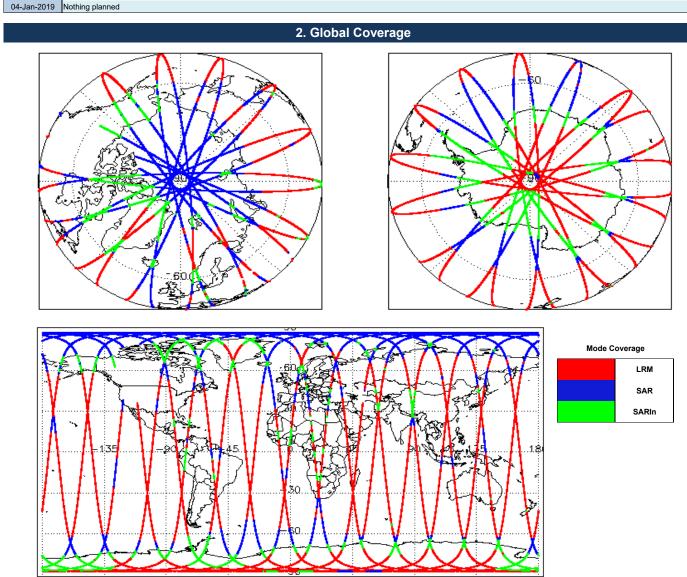


IDEAS+ Daily Report for GOP data:

<u>03/01/2019</u>

| 1. Overview | | | | |
|--------------------|----------------------------------|--|----------------------|--------------------|
| an aut Duaduation. | 04 Eab 2010 | Check | L1 & L2 | P2P |
| port Production: | 04-Feb-2019 | Server check: science-pds.cryosat.esa.int | Nominal | Nominal |
| Processor Used: | | Server check: calval-pds.cryosat.esa.int | Nominal | Nominal |
| Processor Used: | CryoSat Ocean Processor | Product Software Check | Nominal | Nominal |
| Data Used: | Geophysical Ocean Products (GOP) | Product Format Check | Nominal | Nominal |
| Data Used: | L1B, L2 & P2P Science Data | Product Header Analysis | Nominal | Nominal |
| | | Auxiliary Data File Usage Check | Nominal | Nominal |
| | | Auxiliary Correction Error Check | Nominal | Nominal |
| | | Measurement Confidence Data Check | See Section 4.5, 4.6 | Nominal |
| | | Range, SWH & Backscatter Measurement Check | See Section 5.6, 5.7 | See Section 6.6, 6 |
| | | Ocean Retracking Quality Check | See Section 5.8 | See Section 6.8 |

| Mission / Instrument News | | | | |
|---------------------------|------|--|--|--|
| 02-Jan-2019 | None | | | |
| 03-Jan-2019 | None | | | |
| | | | | |



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL - A

0

SIRAL instrument(s) in use:

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

| 4.3 L1B Auxilary Data File Usage Check | | | | |
|---|--|---|--|--|
| Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. | | | | |
| Number of products with errors: 0 | | | | |
| 4.4 L1B Auxiliary Correction Error Check | | | | |
| CryoSat L1B data includes a correction error flag for each measurement record | d. The bit value of this flag indicates a | any problems when set. | | |
| Number of products with errors: 0 | | | | |
| 4.5 L1B Measurement Confidence Data Check | | | | |
| CryoSat L1B data includes a measurement confidence flag for each measurem | nent record. The bit value of this flag | indicates any problems when set. | | |
| Attitude Correction Missing: This flag is currently set in error for GOPR produ | ucts due to a configuration issue. Thi | is is being investigated and will be updated in the next SW update. | | |
| Number of products with errors: 0 | | | | |
| 4.6.1.18 Waveform Group Data Check | | | | |
| 4.6 L1B Waveform Group Data Check | | | | |
| 4.6 L1B Waveform Group Data Check | The hit value of this flag indicates a | any nrohlems when set | | |
| CryoSat L1B data includes a waveform data flag for each measurement record | 0 | any problems when set. | | |
| CryoSat L1B data includes a waveform data flag for each measurement record | 0 | any problems when set. | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but to Number of products with errors: 16 | this is to be expected. | | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but is Number of products with errors: 16 Product | 0 | Description | | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but if Number of products with errors: 16 Product CS_OFFL_SIR_GOPM1B_20190103T002222_20190103T004856_C001 | this is to be expected. | Description The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but is humber of products with errors: 16 Product CS_OFFL_SIR_GOPM1B_20190103T002222_20190103T004856_C001 CS_OFFL_SIR_GOPN1B_20190103T064555_20190103T064716_C001 | this is to be expected. Test Failed Loss of Echo | Description | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but if Number of products with errors: 16 Product CS_OFFL_SIR_GOPN1B_20190103T002222_20190103T004856_C001 CS_OFFL_SIR_GOPN1B_20190103T064555_20190103T064716_C001 CS_OFFL_SIR_GOPN1B_20190103T082017_20190103T082059_C001 | this is to be expected. Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but if Aumber of products with errors: 16 Product CS_OFFL_SIR_GOPM1B_20190103T002222_20190103T004856_C001 CS_OFFL_SIR_GOPN1B_20190103T064555_20190103T064716_C001 CS_OFFL_SIR_GOPN1B_20190103T082017_20190103T082059_C001 CS_OFFL_SIR_GOPN1B_20190103T100431_20190103T100921_C001 | this is to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but is sumber of products with errors: 16 Product CS_OFFL_SIR_GOPM1B_20190103T002222_20190103T004856_C001 CS_OFFL_SIR_GOPM1B_20190103T064555_20190103T064716_C001 CS_OFFL_SIR_GOPN1B_20190103T082017_20190103T082059_C001 CS_OFFL_SIR_GOPN1B_20190103T100431_20190103T100921_C001 CS_OFFL_SIR_GOPN1B_20190103T105636_20190103T105850_C001 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record LOSS of Echo Flag: This flag is currently set for some products over land, but is Number of products with errors: 16 Product 16 DS_OFFL_SIR_GOPM1B_20190103T002222_20190103T004856_C001 16 CS_OFFL_SIR_GOPM1B_20190103T0064555_20190103T064716_C001 16 CS_OFFL_SIR_GOPN1B_20190103T082017_20190103T082059_C001 16 CS_OFFL_SIR_GOPN1B_20190103T100431_20190103T100921_C001 16 CS_OFFL_SIR_GOPN1B_20190103T100431_20190103T100921_C001 16 CS_OFFL_SIR_GOPN1B_20190103T105636_20190103T105850_C001 16 CS_OFFL_SIR_GOPN1B_20190103T10222_20190103T10242_C001 16 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but it Number of products with errors: 16 Product 16 CS_OFFL_SIR_GOPM1B_20190103T002222_20190103T004856_C001 17 CS_OFFL_SIR_GOPM1B_20190103T004555_20190103T0044716_C001 17 CS_OFFL_SIR_GOPN1B_20190103T082017_20190103T082059_C001 16 CS_OFFL_SIR_GOPN1B_20190103T100431_20190103T100921_C001 16 CS_OFFL_SIR_GOPN1B_20190103T100431_20190103T100921_C001 17 CS_OFFL_SIR_GOPN1B_20190103T105636_20190103T105850_C001 17 CS_OFFL_SIR_GOPN1B_20190103T110232_20190103T110242_C001 10 CS_OFFL_SIR_GOPN1B_20190103T113637_20190103T113746_C001 11 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record | Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

| 5.1 L2 Product Format Check | |
|---|--|
| | |
| Each product, rotrigved and uppacked from the | |

CS_OFFL_SIR_GOPN1B_20190103T195410_20190103T195624_C001

CS_OFFL_SIR_GOPR1B_20190103T000212_20190103T001111_C001

CS_OFFL_SIR_GOPR1B_20190103T095803_20190103T100430_C001

CS_OFFL_SIR_GOPR1B_20190103T181710_20190103T182253_C001

CS_OFFL_SIR_GOPR1B_20190103T194637_20190103T194717_C001

CS_OFFL_SIR_GOPR1B_20190103T231309_20190103T232313_C001

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 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed 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:

Loss of Echo

5. GOP Level 2 Data Quality Check

5.3 L2 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:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 79

| Product | Test Failed | Description |
|---|------------------------------|--|
| CS_OFFL_SIR_GOPM_2_20190103T002222_20190103T004856_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T005159_20190103T005641_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

CS_OFFL_SIR_GOPM_2_20190103T005645_20190103T010016_C001 CS OFFL SIR GOPM 2 20190103T010511 20190103T013808 C001 CS_OFFL_SIR_GOPM_2_20190103T015048_20190103T015255_C001 CS_OFFL_SIR_GOPM_2_20190103T022237_20190103T022454_C001 CS OFFL SIR GOPM 2 20190103T024342 20190103T030515 C001 CS OFFL SIR GOPM 2 20190103T030801 20190103T031737 C001 CS OFFL SIR GOPM 2 20190103T032926 20190103T033315 C001 CS OFFL SIR GOPM 2 20190103T034920 20190103T035410 C001 CS_OFFL_SIR_GOPM_2_20190103T035557_20190103T040623_C001 CS OFFL SIR GOPM 2 20190103T041114 20190103T041606 C001 CS OFFL SIR GOPM 2 20190103T042246 20190103T042825 C001 CS_OFFL_SIR_GOPM_2_20190103T042835_20190103T045551_C001 CS OFFL SIR GOPM 2 20190103T051556 20190103T054345 C001 CS_OFFL_SIR_GOPM_2_20190103T055319_20190103T055512_C001 CS_OFFL_SIR_GOPM_2_20190103T055838_20190103T055915_C001 CS OFFL SIR GOPM 2 20190103T060211 20190103T061812 C001 CS_OFFL_SIR_GOPM_2_20190103T062415_20190103T063144_C001 CS_OFFL_SIR_GOPM_2_20190103T065250_20190103T070818_C001 CS OFFL SIR GOPM 2 20190103T071032 20190103T072529 C001 CS_OFFL_SIR_GOPM_2_20190103T073209_20190103T073425_C001 CS_OFFL_SIR_GOPM_2_20190103T073503_20190103T073922_C001 CS OFFL SIR GOPM 2 20190103T074132 20190103T075602 C001 CS_OFFL_SIR_GOPM_2_20190103T075741_20190103T081246_C001 CS OFFL SIR GOPM 2 20190103T083538 20190103T084146 C001 CS OFFL SIR GOPM 2 20190103T084309 20190103T084540 C001 CS OFFL SIR GOPM 2 20190103T085152 20190103T090646 C001 CS_OFFL_SIR_GOPM_2_20190103T090959_20190103T091828_C001 CS_OFFL_SIR_GOPM_2_20190103T092059_20190103T094330_C001 CS_OFFL_SIR_GOPM_2_20190103T101915_20190103T104538_C001 CS OFFL SIR GOPM 2 20190103T105151 20190103T105635 C001 CS_OFFL_SIR_GOPM_2_20190103T110013_20190103T110232_C001 CS_OFFL_SIR_GOPM_2_20190103T110242_20190103T112547_C001 CS OFFL SIR GOPM 2 20190103T115819 20190103T120813 C001 CS_OFFL_SIR_GOPM_2_20190103T121351_20190103T122336_C001 CS_OFFL_SIR_GOPM_2_20190103T123110_20190103T123705_C001 CS OFFL SIR GOPM 2 20190103T123931 20190103T130736 C001 CS_OFFL_SIR_GOPM_2_20190103T131555_20190103T131707_C001 CS_OFFL_SIR_GOPM_2_20190103T132950_20190103T140322_C001 CS OFFL SIR GOPM 2 20190103T141017 20190103T141536 C001 CS OFFL SIR GOPM 2 20190103T141954 20190103T142022 C001 CS_OFFL_SIR_GOPM_2_20190103T145318_20190103T145551_C001 CS OFFL SIR GOPM 2 20190103T150922 20190103T151822 C001 CS_OFFL_SIR_GOPM_2_20190103T152107_20190103T154253_C001 CS OFFL SIR GOPM 2 20190103T155922 20190103T160938 C001 CS_OFFL_SIR_GOPM_2_20190103T161125_20190103T161734_C001 CS_OFFL_SIR_GOPM_2_20190103T161917_20190103T162400_C001 CS OFFL SIR GOPM 2 20190103T164827 20190103T172143 C001 CS_OFFL_SIR_GOPM_2_20190103T172411_20190103T172917_C001 CS_OFFL_SIR_GOPM_2_20190103T172923_20190103T172930_C001 CS OFFL SIR GOPM 2 20190103T172938 20190103T173238 C001 CS OFFL SIR GOPM 2 20190103T174017 20190103T181106 C001

Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more record The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more record The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records

| CS_OFFL_SIR_GOPM_2_20190103T183012_20190103T184535_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|---|------------------------------|--|
| CS_OFFL_SIR_GOPM_2_20190103T184540_20190103T190105_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T190309_20190103T190815_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T190853_20190103T191020_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T191753_20190103T192752_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T193412_20190103T194637_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T200848_20190103T202402_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T202542_20190103T203951_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T204226_20190103T204726_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T204751_20190103T204800_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T204807_20190103T204910_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T205526_20190103T211508_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T211513_20190103T211749_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T211912_20190103T212720_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T215646_20190103T221909_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T222306_20190103T222642_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T222704_20190103T223015_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T223327_20190103T230147_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T233254_20190103T235820_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20190103T190847_20190103T190853_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20190103T195000_20190103T195301_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T045922_20190103T050558_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T050558_20190103T050728_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T081833_20190103T082017_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T163048_20190103T163232_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T190829_20190103T190835_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| | | |

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 79

| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_GOPM_2_20190103T002222_20190103T004856_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T005159_20190103T005641_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T005645_20190103T010016_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T010511_20190103T013808_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T015048_20190103T015255_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T022237_20190103T022454_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T023146_20190103T023708_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T024342_20190103T030515_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T030801_20190103T031737_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T032926_20190103T033315_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T034920_20190103T035410_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T035557_20190103T040623_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T041114_20190103T041606_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T042246_20190103T042825_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T042835_20190103T045551_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T051556_20190103T054345_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T055319_20190103T055512_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |

CS_OFFL_SIR_GOPM_2_20190103T055838_20190103T055915_C001 CS OFFL SIR GOPM 2 20190103T060211 20190103T061812 C001 CS_OFFL_SIR_GOPM_2_20190103T062415_20190103T063144_C001 CS_OFFL_SIR_GOPM_2_20190103T065250_20190103T070818_C001 CS_OFFL_SIR_GOPM_2_20190103T071032_20190103T072529_C001 CS_OFFL_SIR_GOPM_2_20190103T073209_20190103T073425_C001 CS OFFL SIR GOPM 2 20190103T073503 20190103T073922 C001 CS OFFL SIR GOPM 2 20190103T074132 20190103T075602 C001 CS_OFFL_SIR_GOPM_2_20190103T075741_20190103T081246_C001 CS_OFFL_SIR_GOPM_2_20190103T083538_20190103T084146_C001 CS_OFFL_SIR_GOPM_2_20190103T085152_20190103T090646_C001 CS_OFFL_SIR_GOPM_2_20190103T090959_20190103T091828_C001 CS OFFL SIR GOPM 2 20190103T092059 20190103T094330 C001 CS_OFFL_SIR_GOPM_2_20190103T101915_20190103T104538_C001 CS_OFFL_SIR_GOPM_2_20190103T105151_20190103T105635_C001 CS OFFL SIR GOPM 2 20190103T110013 20190103T110232 C001 CS_OFFL_SIR_GOPM_2_20190103T110242_20190103T112547_C001 CS_OFFL_SIR_GOPM_2_20190103T115819_20190103T120813_C001 CS_OFFL_SIR_GOPM_2_20190103T121351_20190103T122336_C001 CS_OFFL_SIR_GOPM_2_20190103T123110_20190103T123705_C001 CS_OFFL_SIR_GOPM_2_20190103T123931_20190103T130736_C001 CS OFFL SIR GOPM 2 20190103T132950 20190103T140322 C001 CS_OFFL_SIR_GOPM_2_20190103T141017_20190103T141536_C001 CS OFFL SIR GOPM 2 20190103T145318 20190103T145551 C001 CS OFFL SIR GOPM 2 20190103T150922 20190103T151822 C001 CS OFFL SIR GOPM 2 20190103T152107 20190103T154253 C001 CS_OFFL_SIR_GOPM_2_20190103T155026_20190103T155432_C001 CS_OFFL_SIR_GOPM_2_20190103T155922_20190103T160938_C001 CS_OFFL_SIR_GOPM_2_20190103T161125_20190103T161734_C001 CS OFFL SIR GOPM 2 20190103T161917 20190103T162400 C001 CS_OFFL_SIR_GOPM_2_20190103T164827_20190103T172143_C001 CS_OFFL_SIR_GOPM_2_20190103T172411_20190103T172917_C001 CS OFFL SIR GOPM 2 20190103T172923 20190103T172930 C001 CS_OFFL_SIR_GOPM_2_20190103T172938_20190103T173238_C001 CS_OFFL_SIR_GOPM_2_20190103T174017_20190103T181106_C001 CS OFFL SIR GOPM 2 20190103T183012 20190103T184535 C001 CS_OFFL_SIR_GOPM_2_20190103T184540_20190103T190105_C001 CS OFFL SIR GOPM 2 20190103T190309 20190103T190815 C001 CS OFFL SIR GOPM 2 20190103T190853 20190103T191020 C001 CS_OFFL_SIR_GOPM_2_20190103T191753_20190103T192752_C001 CS_OFFL_SIR_GOPM_2_20190103T193412_20190103T194637_C001 CS OFFL SIR GOPM 2 20190103T200848 20190103T202402 C001 CS_OFFL_SIR_GOPM_2_20190103T202542_20190103T203951_C001 CS_OFFL_SIR_GOPM_2_20190103T204226_20190103T204726_C001 CS_OFFL_SIR_GOPM_2_20190103T204733_20190103T204744_C001 CS_OFFL_SIR_GOPM_2_20190103T204751_20190103T204800_C001 CS OFFL SIR GOPM 2 20190103T204807 20190103T204910 C001 CS_OFFL_SIR_GOPM_2_20190103T205526_20190103T211508_C001 CS_OFFL_SIR_GOPM_2_20190103T211513_20190103T211749_C001 CS OFFL SIR GOPM 2 20190103T211912 20190103T212720 C001 CS_OFFL_SIR_GOPM_2_20190103T215646_20190103T221909_C001 Ice Backscatter Averaging Status

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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The Ice Backscatter Averaging Status Flag has been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

| CS_OFFL_SIR_GOPM_2_20190103T222306_20190103T222642_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
|---|---|--|
| CS_OFFL_SIR_GOPM_2_20190103T222704_20190103T223015_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T223327_20190103T230147_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20190103T233254_20190103T235820_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20190103T190847_20190103T190853_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20190103T195000_20190103T195301_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T045922_20190103T050558_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T050558_20190103T050728_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T081833_20190103T082017_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T163048_20190103T163232_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20190103T190829_20190103T190835_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| | | |

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 61

6. GOP L2 Pole-to-Pole Data Quality Check

| 6.1 P2P Product Format Check | - |
|--|---|
| | |
| Each product ratio and uppacked from the science server is checked to ensure it consists of both an XML header file (UDP) and a NetCDE product file (pc) | |

Number of products with errors:

6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

6.3 P2P 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 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_GOP_220190102T231750_20190103T000728_C002 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T000728_20190103T005703_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T005703_20190103T014642_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T014642_20190103T023617_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T023617_20190103T032555_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T032555_20190103T041530_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T041530_20190103T050509_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T050509_20190103T055444_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T055444_20190103T064423_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T064423_20190103T073357_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T073357_20190103T082336_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T082336_20190103T091311_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T091311_20190103T100250_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T100250_20190103T105224_C001 | Ocean Range Averaging Status, Ice Range Averaging Status | The Ocean and Ice Range Averaging Status Flags have been set for one or more records. |
| | | |

| CS_OFFL_SIR_GOP_2_20190103T14203_20190103T123138_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T122132Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T132117_20190103T141052_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T141052_20190103T150031_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T150031_20190103T155005_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T163044_20190103T163944_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flags have been set for one or or more records.CS_OFFL_SIR_GOP_2_20190103T163944_20190103T162944_20190103T172919_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T181858_c001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T181858_c001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more reco | CS_OFFL_SIR_GOP_220190103T105224_20190103T114203_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|---|--|------------------------------|---|
| CS_OFFL_SIR_GOP_2_201901031123138_201901031132117_20001Range Averaging Statusor more records.CS_OFFL_SIR_GOP_2_20190103T141052_20190103T141052_20190103T150031_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T141052_20190103T150031_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T150031_20190103T155005_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T155005_20190103T163944_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T163944_20190103T172919_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T172919_20190103T181868_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T181868_20190103T180832_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T180832_20190103T190832_20190103T195811_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records. </td <td>CS_OFFL_SIR_GOP_2_20190103T114203_20190103T123138_C001</td> <td></td> <td></td> | CS_OFFL_SIR_GOP_2_20190103T114203_20190103T123138_C001 | | |
| CS_OFFL_SIR_GOP_2_20190103T142117_20190103T141052_C001Ocean Range Averaging Statusrecords.CS_OFFL_SIR_GOP_2_20190103T141052_20190103T150031_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T150031_20190103T155005_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T155005_20190103T163944_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T163944_20190103T172919_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T172919_20190103T181858_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T172919_20190103T190832_C001Ocean Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T190832_20190103T190832_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_2001003T195811_20190103T204746_C001Ocean Range Averaging Status, Ice Range Averaging Sta | CS_OFFL_SIR_GOP_2_20190103T123138_20190103T132117_C001 | | |
| CS_OFFL_SIR_GOP_2_201901031141052_201901031150031_C001Range Averaging Statusor more records.CS_OFFL_SIR_GOP_2_20190103T155005_20190103T155005_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T155005_20190103T155005_20190103T163944_C001Coean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T163944_20190103T172919_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T172919_20190103T172919_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T172919_20190103T181858_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T190832_20190103T190832_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001Ocean Range Averaging Status (error more records.CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001Ocean Range Averaging Status (error and loce Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_G | CS_OFFL_SIR_GOP_2_20190103T132117_20190103T141052_C001 | Ocean Range Averaging Status | 0 0 0 |
| CS_OFFL_SIR_GOP_2_20190103T15005_20190103T163944_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T163944_20190103T172919_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T172919_20190103T172919_20190103T181858_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001Ocean Range Averaging Status, Ice Range Averaging StatusThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001Ocean Range Averaging Status, Ice Range Averaging Status, IceThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, IceThe Ocean and Ice Range Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOP_2_20190103T195811_20190103T2 | CS_OFFL_SIR_GOP_2_20190103T141052_20190103T150031_C001 | | |
| CS_OFFL_SIR_GOP_2_20190103T155005_20190103T172919_C001 Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20190103T163944_20190103T172919_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T172919_20190103T172919_20190103T181858_C001 Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T150031_20190103T155005_C001 | Ocean Range Averaging Status | |
| CS_OFFL_SIR_GOP_2_20190103T172919_20190103T172919_C001 Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20190103T172919_20190103T181858_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001 Ocean Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T155005_20190103T163944_C001 | | |
| CS_OFFL_SIR_GOP_2_20190103T192919_20190103T190832_C001 Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001 Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001 Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T163944_20190103T172919_C001 | | 0 0 0 |
| CS_OFFL_SIR_GOP_2_201901031198882_201901031190832_2001 Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T172919_20190103T181858_C001 | | |
| CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001 Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 Ocean Range Averaging Status, Ice Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T181858_20190103T190832_C001 | | 0 0 0 |
| CS_OFFL_SIR_GOP_2_201901031195811_201901031204746_C001 Range Averaging Status or more records. | CS_OFFL_SIR_GOP_2_20190103T190832_20190103T195811_C001 | 000 | |
| The Oscar Denne Avenue to Otation Flore has a firm | CS_OFFL_SIR_GOP_2_20190103T195811_20190103T204746_C001 | 5 5 5 · | 0 0 0 |
| CS_OFFL_SIR_GOP_2_20190103T204746_20190103T213725_C001 Ocean Range Averaging Status Flag has been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T204746_20190103T213725_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20190103T213725_20190103T222659_C001 Ocean Range Averaging Status, Ice Range Averaging Status flags have been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T213725_20190103T222659_C001 | | |
| CS_OFFL_SIR_GOP_2_20190103T222659_20190103T231638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. | CS_OFFL_SIR_GOP_2_20190103T222659_20190103T231638_C001 | Ocean Range Averaging Status | |
| CS_OFFL_SIR_GOP_2_20190103T231638_20190104T000613_C002 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. | CS_OFFL_SIR_GOP_220190103T231638_20190104T000613_C002 | Ocean Range Averaging Status | 0 0 0 |

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

| Product | Test Failed | Description |
|--|--|---|
| CS_OFFL_SIR_GOP_2_20190102T231750_20190103T000728_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T000728_20190103T005703_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T005703_20190103T014642_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20190103T014642_20190103T023617_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T023617_20190103T032555_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T032555_20190103T041530_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T041530_20190103T050509_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T050509_20190103T055444_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T055444_20190103T064423_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T064423_20190103T073357_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T073357_20190103T082336_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T082336_20190103T091311_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T091311_20190103T100250_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T100250_20190103T105224_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T105224_20190103T114203_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T114203_20190103T123138_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T123138_20190103T132117_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T132117_20190103T141052_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T141052_20190103T150031_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |

| CS_OFFL_SIR_GOP_220190103T150031_20190103T155005_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
|--|--|---|
| CS_OFFL_SIR_GOP_220190103T155005_20190103T163944_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T163944_20190103T172919_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T172919_20190103T181858_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T181858_20190103T190832_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T190832_20190103T195811_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T195811_20190103T204746_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T204746_20190103T213725_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T213725_20190103T222659_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T222659_20190103T231638_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20190103T231638_20190104T000613_C002 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

27

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

| Product | Test Failed | Description |
|--|-------------------------------|---|
| CS_OFFL_SIR_GOP_2_20190103T000728_20190103T005703_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T005703_20190103T014642_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T014642_20190103T023617_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T023617_20190103T032555_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T032555_20190103T041530_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T041530_20190103T050509_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T050509_20190103T055444_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T055444_20190103T064423_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T064423_20190103T073357_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T073357_20190103T082336_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T082336_20190103T091311_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T100250_20190103T105224_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T105224_20190103T114203_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T114203_20190103T123138_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T123138_20190103T132117_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T141052_20190103T150031_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T150031_20190103T155005_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T155005_20190103T163944_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T163944_20190103T172919_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T172919_20190103T181858_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T181858_20190103T190832_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T190832_20190103T195811_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T195811_20190103T204746_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T204746_20190103T213725_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T213725_20190103T222659_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T222659_20190103T231638_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220190103T231638_20190104T000613_C002 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
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