



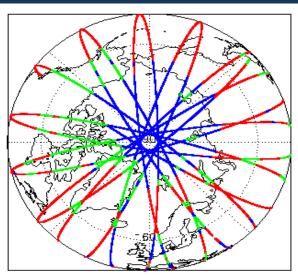
1. Overview

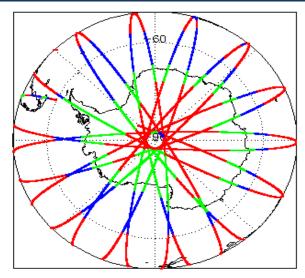
| Report Production: | 22-Oct-2018 | |
|--------------------|--|--|
| Processor Used: | CryoSat Ocean Processor | |
| Data Used: | Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data | |

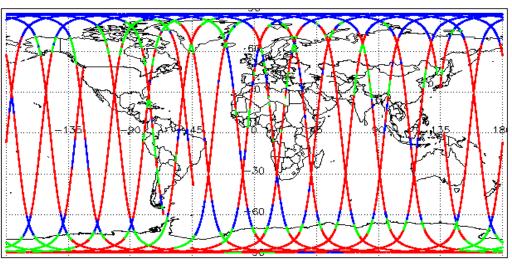
| Check | L1 & L2 | P2P |
|--|------------------------------|----------------------|
| Server check: science-pds.cryosat.esa.int | Nominal | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal | Nominal |
| Product Software Check | Nominal | Nominal |
| Product Format Check | Nominal | Nominal |
| 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 and 5.5 | See Section 6.5 |
| Range, SWH & Backscatter Measurement Check | See Section 5.6, 5.7 | See Section 6.6, 6.7 |
| Ocean Retracking Quality Check | See Section 5.8 | See Section 6.8 |

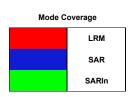
| Mission / Instru | ment News |
|------------------|-----------------|
| 20-Sep-2018 | None |
| 21-Sep-2018 | None |
| 22-Sep-2018 | Nothing planned |

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

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:

0

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.

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:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

| Product | Test Failed | Description |
|---|---------------------|--|
| CS_OFFL_SIR_GOPM1B_20180921T072102_20180921T072445_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_GOPM1B_20180921T001118_20180921T003048_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPM1B_20180921T005042_20180921T010109_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPM1B_20180921T071743_20180921T071834_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPM1B_20180921T204638_20180921T210745_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPM1B_20180921T221145_20180921T224620_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180921T003118_20180921T003338_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180921T020706_20180921T021218_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180921T125148_20180921T125730_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180921T201712_20180921T201823_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPN1B_20180921T215934_20180921T220341_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOPR1B_20180921T003436_20180921T004048_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. GOP Level 2 Data Quality Check

5.1 L2 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

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:

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:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_GOPM_2_20180921T072102_20180921T072445_C001
 Power scaling error
 There is an error in the scaling of the L2 waveform for one or more records

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.

| Ω | 2 |
|---|---|
| U | _ |

| Product | Test Failed | Description |
|---|------------------------------|---|
| CS_OFFL_SIR_GOPM_2_20180920T235614_20180921T000904_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T001118_20180921T003048_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |

| | | T. O. B. A O T |
|---|------------------------------|--|
| CS_OFFL_SIR_GOPM_2_20180921T005042_20180921T010109_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T010248_20180921T011626_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T011935_20180921T012438_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T012502_20180921T012617_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T013309_20180921T013407_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T014231_20180921T014456_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T015619_20180921T020331_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T020454_20180921T020706_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T023430_20180921T023721_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS OFFL SIR GOPM 2 20180921T023919 20180921T025512 C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T025941_20180921T030355_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR GOPM 2 20180921T031129 20180921T034452 C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR GOPM 2 20180921T041045 20180921T043411 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T043745_20180921T044308_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T045023_20180921T050108_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T050645_20180921T052211_C001 | Ocean Range Averaging Status | 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 |
| CS_OFFL_SIR_GOPM_2_20180921T053625_20180921T053651_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T053821_20180921T054451_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T054730_20180921T060833_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T060930_20180921T061336_C001 | Ocean Range Averaging Status | records. |
| CS_OFFL_SIR_GOPM_2_20180921T061739_20180921T062547_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T063107_20180921T070314_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T071510_20180921T071728_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T073638_20180921T074558_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T074644_20180921T075129_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T075717_20180921T080235_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T080949_20180921T083046_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T083332_20180921T084457_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T085430_20180921T085908_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T091458_20180921T091940_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T092128_20180921T093120_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T094857_20180921T102456_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T103756_20180921T104452_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T104508_20180921T110913_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T111847_20180921T112041_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR GOPM 2 20180921T112315 20180921T112524 C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR GOPM 2 20180921T112818 20180921T114404 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T121807_20180921T123348_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T124007_20180921T125055_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR GOPM 2 20180921T125730 20180921T125956 C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T130024_20180921T130448_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR GOPM 2 20180921T130742 20180921T132131 C001 | Ocean Range Averaging Status | 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 |
| CS_OFFL_SIR_GOPM_2_20180921T132311_20180921T133746_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T140326_20180921T140715_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T140837_20180921T141401_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T141536_20180921T143114_C001 | Ocean Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T143514_20180921T144400_C001 | Ice Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T144730_20180921T150836_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T153714_20180921T161050_C001 | Ocean Range Averaging Status | records. |
| CS_OFFL_SIR_GOPM_2_20180921T161725_20180921T162152_C001 | Ice Range Averaging Status | The Locan Pages Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T162701_20180921T165244_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| | | |

| CS_OFFL_SIR_GOPM_2_20180921T171914_20180921T173343_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|--|---|
| | |
| CS_OFFL_SIR_GOPM_2_20180921T173919_20180921T174851_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T175640_20180921T180230_C001 | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T180557_20180921T182503_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T182528_20180921T183031_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T184137_20180921T184317_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T185504_20180921T192819_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T193546_20180921T194101_C001 | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T194743_20180921T195044_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T195209_20180921T195901_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T201824_20180921T202235_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T203109_20180921T203210_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T203220_20180921T204352_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T204638_20180921T210745_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T211554_20180921T212001_C001 | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T212520_20180921T213508_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T213656_20180921T214414_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T214501_20180921T214930_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T221145_20180921T224620_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T225504_20180921T225742_C001 | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T230546_20180921T231816_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T231829_20180921T233601_C001 | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T235721_20180922T000910_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180921T072539_20180921T072738_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180921T094135_20180921T094511_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPN_2_20180921T162152_20180921T162415_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20180921T103325_20180921T103359_C001 Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20180921T152455_20180921T153006_C001 | The Ocean 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.

Test Failed Description

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.

| CS OFFL SIR GOPM 2 20180921T001118 20180921T003048 C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have be | en set for one or |
|---|---------------------|
| Backscatter Averaging Status more records. | |
| CS_OFFL_SIR_GOPM_2_20180921T005042_20180921T010109_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T010248_20180921T011626_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T011935_20180921T012438_C001 | set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T012502_20180921T012617_C001 | set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T014231_20180921T014456_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T015619_20180921T020331_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T020454_20180921T020706_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T023919_20180921T025512_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T025941_20180921T030355_C001 | set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T031129_20180921T034452_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T041045_20180921T043411_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T043745_20180921T044308_C001 | set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T045023_20180921T050108_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been more records. | een set for one or |

| | CM/I Averaging Status Occas | The CAN Land Ocean Averaging Chatra Floor have been set for an a |
|---|--|---|
| CS_OFFL_SIR_GOPM_2_20180921T050645_20180921T052211_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_20180921T053625_20180921T053651_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_20180921T054730_20180921T060833_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_20180921T061739_20180921T062547_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T063107_20180921T070314_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_20180921T071510_20180921T071728_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_20180921T074644_20180921T075129_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 20180921T075717 20180921T080235 C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T080949_20180921T083046_C001 | SWH Averaging Status, Ocean | records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T083332_20180921T084457_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T085430_20180921T085908_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T091458_20180921T091940_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T092128_20180921T093120_C001 | Backscatter Averaging Status | more records. The Ice Backscatter Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T093830_20180921T094135_C001 | Ice Backscatter Averaging Status | records. |
| CS_OFFL_SIR_GOPM_2_20180921T094857_20180921T102456_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_20180921T103756_20180921T104452_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_20180921T104508_20180921T110913_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_20180921T112315_20180921T112524_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T112818_20180921T114404_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_20180921T121807_20180921T123348_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_20180921T124007_20180921T125055_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_20180921T125730_20180921T125956_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T130024_20180921T130448_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T130742_20180921T132131_C001 | SWH Averaging Status, Ocean | records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T132311_20180921T133746_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T140326_20180921T140715_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T140837_20180921T141401_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T141536_20180921T143114_C001 | Backscatter Averaging Status | more records. The Ice Backscatter Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T143514_20180921T144400_C001 | Ice Backscatter Averaging Status | records. |
| CS_OFFL_SIR_GOPM_2_20180921T144730_20180921T150836_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_20180921T152249_20180921T152402_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_20180921T153714_20180921T161050_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_20180921T161438_20180921T161621_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T161725_20180921T162152_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T162701_20180921T165244_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_20180921T170240_20180921T170428_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_20180921T171914_20180921T173343_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_20180921T173919_20180921T174851_C001 | SWH Averaging Status, Ocean | The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T175640_20180921T180230_C001 | Backscatter Averaging Status Ice Backscatter Averaging Status | more records. The Ice Backscatter Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T180557_20180921T182503_C001 | SWH Averaging Status, Ocean | records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T182528_20180921T183031_C001 | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| | Backscatter Averaging Status SWH Averaging Status, Ocean | more records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T185504_20180921T192819_C001 | Backscatter Averaging Status | more records. The Ice Backscatter Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_GOPM_2_20180921T193546_20180921T194101_C001 | Ice Backscatter Averaging Status SWH Averaging Status, Ocean | records. The SWH and Ocean Averaging Status Flags have been set for one or |
| CS_OFFL_SIR_GOPM_2_20180921T194743_20180921T195044_C001 | Backscatter Averaging Status | more records. |
| CS_OFFL_SIR_GOPM_2_20180921T201824_20180921T202235_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_20180921T203220_20180921T204352_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_20180921T204638_20180921T210745_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_20180921T211554_20180921T212001_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOPM_2_20180921T212520_20180921T213508_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_20180921T213656_20180921T214414_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have been set for one or more records. |
| | , J 3 | |

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

more records.

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

5.8 L2 Ocean Retracking Quality Check

CS_OFFL_SIR_GOPM_2_20180921T214501_20180921T214930_C001

CS_OFFL_SIR_GOPM_2_20180921T221145_20180921T224620_C001

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:

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

6.1 P2P 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 NetCDF product file (.nc).

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:

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:

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).

Number of products with errors:

U

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:

| Product | Test Failed | Description |
|---|---------------------|---|
| CS_OFFL_SIR_GOP_220180921T071211_20180921T080145_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

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.

| Product | Test Failed | Description |
|--|---|---|
| CS_OFFL_SIR_GOP_220180920T234537_20180921T003517_C003 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T003517_20180921T012451_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_220180921T012451_20180921T021430_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T021430_20180921T030405_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_220180921T030405_20180921T035344_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_220180921T035344_20180921T044318_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_220180921T044318_20180921T053257_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T053257_20180921T062232_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_220180921T062232_20180921T071211_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T071211_20180921T080145_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T080145_20180921T085125_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T085125_20180921T094059_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T094059_20180921T103038_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_220180921T103038_20180921T112012_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T112012_20180921T120952_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T120952_20180921T125926_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T125926_20180921T134905_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_220180921T134905_20180921T143840_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T143840_20180921T152819_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_20180921T152819_20180921T161753_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T161753_20180921T170732_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_220180921T170732_20180921T175707_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|--|---|---|
| CS_OFFL_SIR_GOP_220180921T175707_20180921T184646_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_220180921T184646_20180921T193620_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_220180921T193620_20180921T202600_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_220180921T202600_20180921T211534_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T211534_20180921T220513_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_220180921T220513_20180921T225447_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_20180921T225447_20180921T234427_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_220180921T234427_20180922T003401_C002 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |

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.

| Product | Test Failed | Description |
|--|--|--|
| CS_OFFL_SIR_GOP_2_20180920T234537_20180921T003517_C003 | 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_2_20180921T003517_20180921T012451_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_220180921T012451_20180921T021430_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_2_20180921T021430_20180921T030405_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_20180921T030405_20180921T035344_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_20180921T035344_20180921T044318_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_20180921T044318_20180921T053257_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_2_20180921T053257_20180921T062232_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_20180921T062232_20180921T071211_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_2_20180921T071211_20180921T080145_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_20180921T080145_20180921T085125_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_2_20180921T085125_20180921T094059_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_2_20180921T094059_20180921T103038_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_20180921T103038_20180921T112012_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_2_20180921T112012_20180921T120952_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_2_20180921T120952_20180921T125926_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_2_20180921T125926_20180921T134905_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_20180921T134905_20180921T143840_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_2_20180921T143840_20180921T152819_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_20180921T152819_20180921T161753_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_20180921T161753_20180921T170732_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_20180921T170732_20180921T175707_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_2_20180921T175707_20180921T184646_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_20180921T184646_20180921T193620_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_2_20180921T193620_20180921T202600_C001 | | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
|--|--|--|
| CS_OFFL_SIR_GOP_2_20180921T202600_20180921T211534_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_2_20180921T211534_20180921T220513_C001 | Backscaffer Averaging Status Ice | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T220513_20180921T225447_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_20180921T225447_20180921T234427_C001 | Backscaffer Averaging Status Ice | The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T234427_20180922T003401_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.

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_220180920T234537_20180921T003517_C003 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T003517_20180921T012451_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T012451_20180921T021430_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T030405_20180921T035344_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T035344_20180921T044318_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T044318_20180921T053257_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T053257_20180921T062232_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T062232_20180921T071211_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T071211_20180921T080145_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T080145_20180921T085125_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T085125_20180921T094059_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T094059_20180921T103038_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T103038_20180921T112012_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T112012_20180921T120952_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T120952_20180921T125926_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T125926_20180921T134905_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T134905_20180921T143840_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T143840_20180921T152819_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T152819_20180921T161753_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T161753_20180921T170732_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T170732_20180921T175707_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T175707_20180921T184646_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T184646_20180921T193620_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T193620_20180921T202600_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T202600_20180921T211534_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20180921T211534_20180921T220513_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T220513_20180921T225447_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T225447_20180921T234427_C001 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220180921T234427_20180922T003401_C002 | Ocean Retracking Quality Flag | The Ocean Retracking Quality Flag has been set for one or more records. |
| | | |