

IDEAS+ Daily Report for NOP data:

<u>09/04/2019</u>



| | | 1. Overview | |
|---------------------|---|---|------------------------------|
| | | Check | L1 & L2 |
| port Production: | 10-Apr-2019 Server check: science-pds.cryosat.esa.int | | Nominal |
| rocessor Used: | CrueSat Ocean Brosser | Server check: calval-pds.cryosat.esa.int | Nominal |
| Tocessor Used: | CryoSat Ocean Processor | Product Software Check | Nominal |
| Data Used: | Near Real Time Ocean Products (NOP) | Product Format Check | Nominal |
| | L1B & L2 Science Data | Product Header Analysis | Nominal |
| | | Auxiliary Data File Usage Check | Nominal Nominal |
| | | Auxiliary Correction Error Check Measurement Confidence Data Check | See Section 4.5, 4.6 and 5.5 |
| | | Range, SWH & Backscatter Measurement Check | See Section 5.6, 5.7 |
| | | Ocean Retracking Quality Check | See Section 5.8 |
| sion / Instrument N | | | |
| 3-Apr-2019 None | ews | | |
| 9-Apr-2019 None | | | |
| D-Apr-2019 Nothing | planned | | |
| | | 2. Global Coverage | |
| | | 2. Slobal Soverage | |
| | | | |
| | | | Mode Coverage LRM SAR |
| | | | |
| | | 3. Instrument Configuration | |
| | | 3 Instrument Continuation | |

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. NOP 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.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

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.

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 NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.
Number of products with errors:
1

| Product | Test Failed | Description |
|---|---------------------|---|
| CS_OFFL_SIR_NOPM1B_20190409T045712_20190409T053059_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 products over land, but this is to be expected.

17

Number of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_NOPM1B_20190409T033848_20190409T034029_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20190409T113236_20190409T120615_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T003944_20190409T004516_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T030940_20190409T031048_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T034144_20190409T034738_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T040257_20190409T040445_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T044856_20190409T045451_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T053145_20190409T053333_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T062345_20190409T062415_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T081106_20190409T081518_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T143843_20190409T144100_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T154141_20190409T154229_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T194420_20190409T194542_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T203311_20190409T203422_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20190409T213304_20190409T213455_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20190409T075808_20190409T080022_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20190409T094110_20190409T094959_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. NOP 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: 0

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.

| Product | Test Failed | Description |
|---|---------------------|---|
| CS_OFFL_SIR_NOPM_2_20190409T045712_20190409T053059_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. 81

| Number of products with errors: 81 | Test Failed | Description |
|---|---|--|
| Product CS OFFL SIR NOPM 2 20190409T000520 20190409T000947 C001 | Test Failed Ocean Range Averaging Status | Description The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T001036_20190409T002814_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR NOPM 2 20190409T004649 20190409T010403 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_NOPM_2_20190409T010844_20190409T011555_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T013555_20190409T015331_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T015502_20190409T020903_C001 | Ocean Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T021652_20190409T021853_C001 | Ice Range Averaging Status | records. |
| CS_OFFL_SIR_NOPM_2_20190409T021958_20190409T022355_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T022545_20190409T024111_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T024312_20190409T025236_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T032029_20190409T033141_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T033848_20190409T034029_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T034739_20190409T035150_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T035456_20190409T040257_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T040515_20190409T042018_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T045712_20190409T053059_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T053333_20190409T053540_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T053610_20190409T054141_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T054428_20190409T060927_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T064141_20190409T065242_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T065819_20190409T070928_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T072056_20190409T072137_C001 | Ice Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR NOPM 2 20190409T072309 20190409T075235 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T080022_20190409T080047_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR NOPM 2 201904091081518 201904091084838 C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS OFFL SIR NOPM 2 201904091085451 201904091090021 C001 | | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFTE_SIR_NOPM_2_201904091080401_201904091090021_C001 | Ice Range Averaging Status 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_NOPM_2_20190409T093915_20190409T094109_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T095418_20190409T102759_C001 | Ocean Range Averaging Status | records. The Ice Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T103353_20190409T103905_C001 | Ice Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T104113_20190409T110046_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T111846_20190409T111852_C001 | Ocean Range Averaging Status | records. The Ocean Range Averaging Status Flag has been set for one or more |
| CS_OFFL_SIR_NOPM_2_20190409T113236_20190409T120615_C001 | Ocean Range Averaging Status | records. |
| CS_0FFL_SIR_NOPM_2_20190409T120938_20190409T121352_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T121410_20190409T121806_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T122048_20190409T125625_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T131605_20190409T132331_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T132813_20190409T134542_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T134734_20190409T135251_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T135310_20190409T135507_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T140328_20190409T141627_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T141842_20190409T143100_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T143326_20190409T143432_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T145807_20190409T150832_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| | | |

| CS_OFFL_SIR_NOPM_2_20190409T151012_20190409T152448_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
|---|------------------------------|--|
| CS_OFFL_SIR_NOPM_2_20190409T152659_20190409T153202_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T154033_20190409T154130_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T154845_20190409T155231_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T155929_20190409T160219_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T160342_20190409T161053_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T164233_20190409T170345_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T171737_20190409T175214_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T181811_20190409T184335_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T184507_20190409T185032_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T185038_20190409T185403_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T185706_20190409T190831_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T191408_20190409T192948_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T195351_20190409T201448_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T201656_20190409T202315_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T202506_20190409T203310_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T203622_20190409T211029_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T214513_20190409T215321_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T215346_20190409T220231_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T220442_20190409T220958_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T221549_20190409T223808_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T224054_20190409T225015_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T230210_20190409T230631_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T232150_20190409T232704_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T232852_20190409T234127_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T234604_20190409T234858_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T235522_20190410T002833_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T053541_20190409T053609_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T103032_20190409T103353_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T112108_20190409T112239_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T152511_20190409T152659_C001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T230134_20190409T230141_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T234858_20190409T235238_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPR_2_20190409T002814_20190409T003116_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPR_2_20190409T022534_20190409T022545_C001 | Ocean Range Averaging Status | The Ocean Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPR_2_20190409T171630_20190409T171737_C001 | Ocean Range Averaging Status | 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.

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. 84

| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_NOPM_2_20190409T000520_20190409T000947_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_NOPM_2_20190409T001036_20190409T002814_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_NOPM_2_20190409T003746_20190409T003944_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T004649_20190409T010403_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_NOPM_2_20190409T010844_20190409T011555_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_NOPM_2_20190409T013555_20190409T015331_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_NOPM_2_20190409T015502_20190409T020903_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_NOPM_2_20190409T021652_20190409T021853_C001 CS OFFL SIR NOPM 2 20190409T021958 20190409T022355 C001 CS_OFFL_SIR_NOPM_2_20190409T022545_20190409T024111_C001 CS_OFFL_SIR_NOPM_2_20190409T024312_20190409T025236_C001 CS OFFL SIR NOPM 2 20190409T032029 20190409T033141 C001 CS_OFFL_SIR_NOPM_2_20190409T033848_20190409T034029_C001 CS OFFL SIR NOPM 2 20190409T034739 20190409T035150 C001 CS OFFL SIR NOPM 2 20190409T035456 20190409T040257 C001 CS_OFFL_SIR_NOPM_2_20190409T040515_20190409T042018_C001 CS_OFFL_SIR_NOPM_2_20190409T045712_20190409T053059_C001 CS OFFL SIR NOPM 2 20190409T053333 20190409T053540 C001 CS_OFFL_SIR_NOPM_2_20190409T053610_20190409T054141_C001 CS OFFL SIR NOPM 2 20190409T054428 20190409T060927 C001 CS_OFFL_SIR_NOPM_2_20190409T064141_20190409T065242_C001 CS_OFFL_SIR_NOPM_2_20190409T065819_20190409T070928_C001 CS OFFL SIR NOPM 2 20190409T071541 20190409T072022 C001 CS_OFFL_SIR_NOPM_2_20190409T072056_20190409T072137_C001 CS_OFFL_SIR_NOPM_2_20190409T072309_20190409T075235_C001 CS_OFFL_SIR_NOPM_2_20190409T080022_20190409T080047_C001 CS_OFFL_SIR_NOPM_2_20190409T081518_20190409T084838_C001 CS_OFFL_SIR_NOPM_2_20190409T085451_20190409T090021_C001 CS OFFL SIR NOPM 2 20190409T090203 20190409T090808 C001 CS_OFFL_SIR_NOPM_2_20190409T093915_20190409T094109_C001 CS OFFL SIR NOPM 2 20190409T095418 20190409T102759 C001 CS OFFL SIR NOPM 2 20190409T103353 20190409T103905 C001 CS_OFFL_SIR_NOPM_2_20190409T104113_20190409T110046_C001 CS_OFFL_SIR_NOPM_2_20190409T111846_20190409T111852_C001 CS_OFFL_SIR_NOPM_2_20190409T113236_20190409T120615_C001 CS_OFFL_SIR_NOPM_2_20190409T120938_20190409T121352_C001 CS OFFL SIR NOPM 2 20190409T121410 20190409T121806 C001 CS_OFFL_SIR_NOPM_2_20190409T122048_20190409T125625_C001 CS_OFFL_SIR_NOPM_2_20190409T131605_20190409T132331_C001 CS OFFL SIR NOPM 2 20190409T132813 20190409T134542 C001 CS_OFFL_SIR_NOPM_2_20190409T134734_20190409T135251_C001 CS_OFFL_SIR_NOPM_2_20190409T135310_20190409T135507_C001 CS OFFL SIR NOPM 2 20190409T140328 20190409T141627 C001 CS_OFFL_SIR_NOPM_2_20190409T141842_20190409T143100_C001 CS_OFFL_SIR_NOPM_2_20190409T143326_20190409T143432_C001 CS OFFL SIR NOPM 2 20190409T145807 20190409T150832 C001 CS_OFFL_SIR_NOPM_2_20190409T151012_20190409T152448_C001 CS_OFFL_SIR_NOPM_2_20190409T152659_20190409T153202_C001 CS OFFL SIR NOPM 2 20190409T154033 20190409T154130 C001 CS_OFFL_SIR_NOPM_2_20190409T154845_20190409T155231_C001 CS OFFL SIR NOPM 2 20190409T155929 20190409T160219 C001 CS_OFFL_SIR_NOPM_2_20190409T160342_20190409T161053_C001 CS_OFFL_SIR_NOPM_2_20190409T164233_20190409T170345_C001 CS OFFL SIR NOPM 2 20190409T170712 20190409T171118 C001 CS_OFFL_SIR_NOPM_2_20190409T171737_20190409T175214_C001 CS_OFFL_SIR_NOPM_2_20190409T181811_20190409T184335_C001 CS OFFL SIR NOPM 2 20190409T184507 20190409T185032 C001 CS_OFFL_SIR_NOPM_2_20190409T185038_20190409T185403_C001 Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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.

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 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.

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.

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 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 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 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.

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 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 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.

| CS_OFFL_SIR_NOPM_2_20190409T185706_20190409T190831_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_NOPM_2_20190409T191408_20190409T192948_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_NOPM_2_20190409T195351_20190409T201448_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_NOPM_2_20190409T201656_20190409T202315_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_NOPM_2_20190409T202506_20190409T203310_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T203622_20190409T211029_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_NOPM_2_20190409T212351_20190409T212448_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_NOPM_2_20190409T214513_20190409T215321_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_NOPM_2_20190409T215346_20190409T220231_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_NOPM_2_20190409T220442_20190409T220958_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T221549_20190409T223808_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_NOPM_2_20190409T224054_20190409T225015_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_NOPM_2_20190409T230210_20190409T230631_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_NOPM_2_20190409T232150_20190409T232704_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_NOPM_2_20190409T232852_20190409T234127_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_NOPM_2_20190409T234604_20190409T234858_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPM_2_20190409T235522_20190410T002833_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_NOPN_2_20190409T053541_20190409T053609_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T103032_20190409T103353_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T112108_20190409T112239_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_NOPN_2_20190409T152511_20190409T152659_C001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20190409T230134_20190409T230141_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_NOPN_2_20190409T234858_20190409T235238_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_NOPR_2_20190409T002814_20190409T003116_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_NOPR_2_20190409T022534_20190409T022545_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_NOPR_2_20190409T171630_20190409T171737_C001 | SWH Averaging Status, Ocean Backscatter Averaging Status | The SWH and Ocean Averaging Status Flags have 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.

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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.