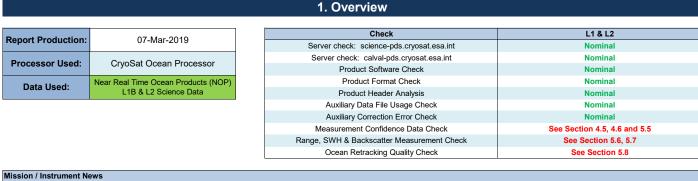
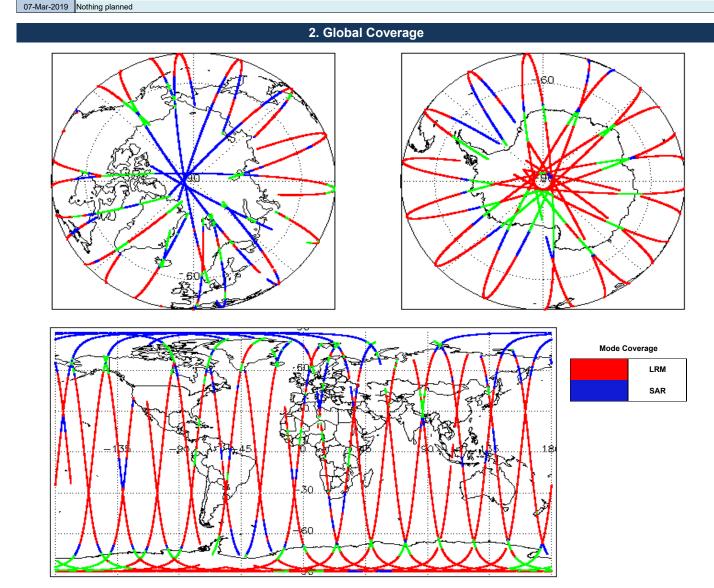


# IDEAS+ Daily Report for NOP data:

# 06/03/2019



## 05-Mar-2019 None 06-Mar-2019 None



## 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. 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

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

### 4.4 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 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190306T041944_20190306T043122_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.

10

Number of p	roducts with	errors:
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Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190306T155049_20190306T160639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190306T175904_20190306T183251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190306T035618_20190306T035748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190306T084148_20190306T084232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190306T115644_20190306T115811_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190306T234321_20190306T234342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190306T002223_20190306T002505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190306T050112_20190306T050251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190306T101253_20190306T101447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190306T223406_20190306T223749_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:

#### 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: 0

1

### 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_NOPM_2_20190306T041944_20190306T043122_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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190305T234729_20190306T001024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T001310_20190306T002223_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190306T003442\_20190306T003837\_C001 CS OFFL SIR NOPM 2 20190306T005431 20190306T005917 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T010105\_20190306T011415\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T011734\_20190306T012116\_C001 CS OFFL SIR NOPM 2 20190306T012637 20190306T013318 C001 CS OFFL SIR NOPM 2 20190306T013328 20190306T015933 C001 CS OFFL SIR NOPM 2 20190306T021745 20190306T024853 C001 CS OFFL SIR NOPM 2 20190306T025828 20190306T030021 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T030317\_20190306T030454\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T030658\_20190306T032325\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T032923\_20190306T033622\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T035754\_20190306T040043\_C001 CS OFFL SIR NOPM 2 20190306T040129 20190306T041324 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T041944\_20190306T043122\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T043714\_20190306T043936\_C001 CS OFFL SIR NOPM 2 20190306T044008 20190306T044430 C001 CS OFFL SIR NOPM 2 20190306T044609 20190306T050111 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T050251\_20190306T051814\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T053941\_20190306T054651\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T054814\_20190306T055303\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T055601\_20190306T061236\_C001 CS OFFL SIR NOPM 2 20190306T061501 20190306T062340 C001 CS OFFL SIR NOPM 2 20190306T062542 20190306T064834 C001 CS OFFL SIR NOPM 2 20190306T072552 20190306T075157 C001 CS OFFL SIR NOPM 2 20190306T075704 20190306T080137 C001 CS OFFL SIR NOPM 2 20190306T080433 20190306T083411 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T090237\_20190306T091320\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T091858\_20190306T093058\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T093620\_20190306T094213\_C001 CS OFFL SIR NOPM 2 20190306T094340 20190306T100556 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T100614\_20190306T101108\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T103442\_20190306T110956\_C001 CS OFFL SIR NOPM 2 20190306T111527 20190306T112044 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T112217\_20190306T112524\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T115812\_20190306T120048\_C001 CS OFFL SIR NOPM 2 20190306T121451 20190306T122327 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T122614\_20190306T124916\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T125410\_20190306T125528\_C001 CS OFFL SIR NOPM 2 20190306T125536 20190306T125942 C001 CS OFFL SIR NOPM 2 20190306T130116 20190306T131448 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T131635\_20190306T132253\_C001 CS OFFL SIR NOPM 2 20190306T135426 20190306T142722 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T142911\_20190306T143426\_C001 CS OFFL SIR NOPM 2 20190306T143433 20190306T143439 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T143446\_20190306T143734\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T144109\_20190306T144225\_C001 CS OFFL SIR NOPM 2 20190306T144527 20190306T151535 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T153549\_20190306T154844\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T155049\_20190306T160639\_C001 CS OFFL SIR NOPM 2 20190306T162248 20190306T163303 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T163921\_20190306T165037\_C001 Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status

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CS_OFFL_SIR_NOPM_2_20190306T172626_20190306T172909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T173048_20190306T174533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T174734_20190306T175234_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T175317_20190306T175422_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T175904_20190306T183251_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T190219_20190306T192509_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T192819_20190306T193151_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T193213_20190306T193539_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T193757_20190306T200712_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T203703_20190306T210429_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T210601_20190306T211105_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T211112_20190306T211440_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T211723_20190306T212912_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T213449_20190306T215213_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T223749_20190306T224421_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T224600_20190306T225137_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T225647_20190306T233048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T234438_20190306T234535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190306T003342_20190306T003414_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190306T075605_20190306T075704_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190306T224446_20190306T224600_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T001025_20190306T001310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T012448_20190306T012637_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T135233_20190306T135426_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T143439_20190306T143446_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T211614_20190306T211723_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. 76

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190305T234729_20190306T001024_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_20190306T001310_20190306T002223_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_20190306T003442_20190306T003837_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_20190306T005431_20190306T005917_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_20190306T010105_20190306T011415_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_20190306T012637_20190306T013318_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_20190306T013328_20190306T015933_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_20190306T021745_20190306T024853_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_20190306T025828_20190306T030021_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T030317_20190306T030454_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T030658_20190306T032325_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_20190306T032923_20190306T033622_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_20190306T040129_20190306T041324_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_20190306T041944_20190306T043122_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_20190306T043714_20190306T043936_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T044008_20190306T044430_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190306T044609_20190306T050111_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\_20190306T050251\_20190306T051814\_C001 CS OFFL SIR NOPM 2 20190306T053941 20190306T054651 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T054814\_20190306T055303\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T055601\_20190306T061236\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T061501\_20190306T062340\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T062542\_20190306T064834\_C001 CS OFFL SIR NOPM 2 20190306T072552 20190306T075157 C001 CS OFFL SIR NOPM 2 20190306T075704 20190306T080137 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T080433\_20190306T083411\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T090237\_20190306T091320\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T091858\_20190306T093058\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T093620\_20190306T094213\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T094340\_20190306T100556\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T100614\_20190306T101108\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T103442\_20190306T110956\_C001 CS OFFL SIR NOPM 2 20190306T111527 20190306T112044 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T112217\_20190306T112524\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T115812\_20190306T120048\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T121451\_20190306T122327\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T122614\_20190306T124916\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T125410\_20190306T125528\_C001 CS OFFL SIR NOPM 2 20190306T125536 20190306T125942 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T130116\_20190306T131448\_C001 CS OFFL SIR NOPM 2 20190306T131635 20190306T132253 C001 CS OFFL SIR NOPM 2 20190306T135426 20190306T142722 C001 CS OFFL SIR NOPM 2 20190306T142911 20190306T143426 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T143433\_20190306T143439\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T143446\_20190306T143734\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T144109\_20190306T144225\_C001 CS OFFL SIR NOPM 2 20190306T144527 20190306T151535 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T153549\_20190306T154844\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T155049\_20190306T160639\_C001 CS OFFL SIR NOPM 2 20190306T160821 20190306T161324 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T163921\_20190306T165037\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T172626\_20190306T172909\_C001 CS OFFL SIR NOPM 2 20190306T173048 20190306T174533 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T174734\_20190306T175234\_C001 CS OFFL SIR NOPM 2 20190306T175300 20190306T175309 C001 CS OFFL SIR NOPM 2 20190306T175317 20190306T175422 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T175904\_20190306T183251\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T190219\_20190306T192509\_C001 CS OFFL SIR NOPM 2 20190306T193213 20190306T193539 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T193757\_20190306T200712\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T203703\_20190306T210429\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T210601\_20190306T211105\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T211112\_20190306T211440\_C001 CS OFFL SIR NOPM 2 20190306T211723 20190306T212912 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T213449\_20190306T215213\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T223749\_20190306T224421\_C001 CS OFFL SIR NOPM 2 20190306T224600 20190306T225137 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190306T225647\_20190306T233048\_C001 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

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 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

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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 SWH Averaging Status, Ocean Backscatter Averaging Status

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Ice 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 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CS_OFFL_SIR_NOPM_2_20190306T234438_20190306T234535_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_20190306T003342_20190306T003414_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_20190306T224446_20190306T224600_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T001025_20190306T001310_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_20190306T012448_20190306T012637_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_20190306T135233_20190306T135426_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_20190306T143439_20190306T143446_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190306T211614_20190306T211723_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.

Number of products with errors: