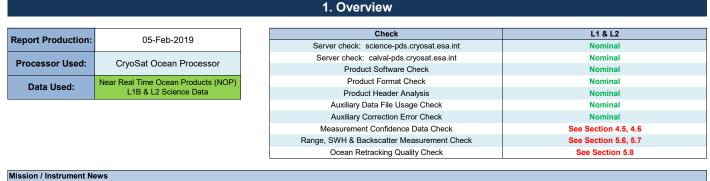


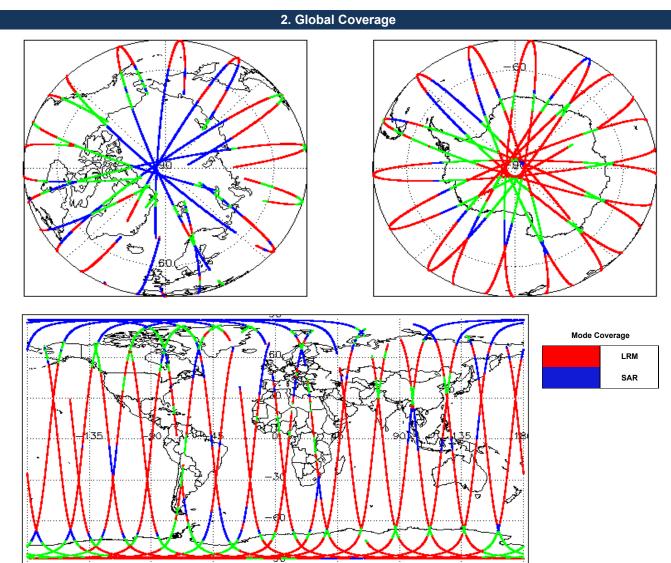
# IDEAS+ Daily Report for NOP data:

# 04/02/2019



## 03-Feb-2019 None 04-Feb-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

#### 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.		
Number of products with errors:	0	

## 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:

#### 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.

Number of products with errors: 16		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190204T020312_20190204T023811_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T033657_20190204T034222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T060926_20190204T061142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T064842_20190204T065221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T074610_20190204T074834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T091948_20190204T092004_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T122644_20190204T122844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T123842_20190204T123926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190204T173445_20190204T173815_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T050543_20190204T051131_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T140627_20190204T140705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T141603_20190204T141838_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T165415_20190204T165524_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T190931_20190204T191148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T191154_20190204T191245_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190204T215234_20190204T215335_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:

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

#### 5.6 L2 Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 75

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190204T000510_20190204T001135_C001	Ucean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190204T001321\_20190204T001900\_C001 CS OFFL SIR NOPM 2 20190204T002427 20190204T005812 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T013130\_20190204T015117\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T015245\_20190204T015755\_C001 CS OFFL SIR NOPM 2 20190204T020312 20190204T023811 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T030230\_20190204T030700\_C001 CS OFFL SIR NOPM 2 20190204T030746 20190204T032521 C001 CS OFFL SIR NOPM 2 20190204T032817 20190204T033002 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T033450\_20190204T033657\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T034348\_20190204T040004\_C001 CS OFFL SIR NOPM 2 20190204T040007 20190204T041324 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T043255\_20190204T045113\_C001 CS OFFL SIR NOPM 2 20190204T045211 20190204T050543 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T051725\_20190204T052108\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T052249\_20190204T053829\_C001 CS OFFL SIR NOPM 2 20190204T054031 20190204T054954 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T060802\_20190204T060926\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T061748\_20190204T062911\_C001 CS OFFL SIR NOPM 2 20190204T065221 20190204T070010 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T070159\_20190204T071733\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T075530\_20190204T080509\_C001 CS OFFL SIR NOPM 2 20190204T080511 20190204T082817 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T083310\_20190204T083902\_C001 CS OFFL SIR NOPM 2 20190204T084121 20190204T090720 C001 CS OFFL SIR NOPM 2 20190204T093832 20190204T094951 C001 CS OFFL SIR NOPM 2 20190204T095526 20190204T100659 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T101253\_20190204T101715\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T102005\_20190204T104714\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T105818\_20190204T105824\_C001 CS OFFL SIR NOPM 2 20190204T111258 20190204T112904 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T112916\_20190204T114605\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T115203\_20190204T115742\_C001 CS OFFL SIR NOPM 2 20190204T115904 20190204T120526 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T125125\_20190204T132549\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T133107\_20190204T133619\_C001 CS OFFL SIR NOPM 2 20190204T133804 20190204T135806 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T142947\_20190204T150337\_C001 CS OFFL SIR NOPM 2 20190204T150843 20190204T151106 C001 CS OFFL SIR NOPM 2 20190204T151113 20190204T151525 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T151721\_20190204T154602\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T161153\_20190204T162042\_C001 CS OFFL SIR NOPM 2 20190204T162523 20190204T162658 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T162710\_20190204T164307\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T164445\_20190204T165005\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T165024\_20190204T165228\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T165738\_20190204T165749\_C001 CS OFFL SIR NOPM 2 20190204T170114 20190204T171342 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T171553\_20190204T172744\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T175514\_20190204T180444\_C001 CS OFFL SIR NOPM 2 20190204T180646 20190204T182217 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T182410\_20190204T182916\_C001

Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status 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 Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status

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

CS_OFFL_SIR_NOPM_2_20190204T182940_20190204T183056_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T185632_20190204T185933_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T190056_20190204T190448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T194434_20190204T200130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T200359_20190204T200832_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T200854_20190204T201027_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T201427_20190204T204015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T211441_20190204T214110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T214226_20190204T214733_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T214752_20190204T215117_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T215335_20190204T220548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T221123_20190204T222623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T225217_20190204T232038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T232209_20190204T232647_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T232649_20190204T233023_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T233254_20190205T000805_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190204T074610_20190204T074834_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190204T214746_20190204T214752_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190204T232046_20190204T232209_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190204T094951_20190204T095526_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190204T114605_20190204T114824_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190204T180444_20190204T180646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190204T232038_20190204T232046_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. 74

## Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190204T000510_20190204T001135_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_20190204T001321_20190204T001900_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T002427_20190204T005812_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_20190204T011204_20190204T011255_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_20190204T013130_20190204T015117_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_20190204T015245_20190204T015755_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T020312_20190204T023811_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_20190204T030746_20190204T032521_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_20190204T032817_20190204T033002_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_20190204T034348_20190204T040004_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_20190204T040007_20190204T041324_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_20190204T043255_20190204T045113_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_20190204T045211_20190204T050543_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_20190204T051725_20190204T052108_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T052249_20190204T053829_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_20190204T054031_20190204T054954_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_20190204T061748_20190204T062911_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_20190204T065221_20190204T070010_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190204T070159_20190204T071733_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_20190204T075530_20190204T080509_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\_20190204T080511\_20190204T082817\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T083310\_20190204T083902\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T084121\_20190204T090720\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T093832\_20190204T094951\_C001 CS OFFL SIR NOPM 2 20190204T095526 20190204T100659 C001 CS OFFL SIR NOPM 2 20190204T101253 20190204T101715 C001 CS OFFL SIR NOPM 2 20190204T102005 20190204T104714 C001 CS OFFL SIR NOPM 2 20190204T105818 20190204T105824 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T111258\_20190204T112904\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T112916\_20190204T114605\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T115203\_20190204T115742\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T115904\_20190204T120526\_C001 CS OFFL SIR NOPM 2 20190204T123642 20190204T123803 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T125125\_20190204T132549\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T133107\_20190204T133619\_C001 CS OFFL SIR NOPM 2 20190204T133804 20190204T135806 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T142947\_20190204T150337\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T150843\_20190204T151106\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T151113\_20190204T151525\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T151721\_20190204T154602\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T161153\_20190204T162042\_C001 CS OFFL SIR NOPM 2 20190204T162523 20190204T162658 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T162710\_20190204T164307\_C001 CS OFFL SIR NOPM 2 20190204T164445 20190204T165005 C001 CS OFFL SIR NOPM 2 20190204T165024 20190204T165228 C001 CS OFFL SIR NOPM 2 20190204T165738 20190204T165749 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T170114\_20190204T171342\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T171553\_20190204T172744\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T175514\_20190204T180444\_C001 CS OFFL SIR NOPM 2 20190204T180646 20190204T182217 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T182410\_20190204T182916\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T182940\_20190204T183056\_C001 CS OFFL SIR NOPM 2 20190204T185632 20190204T185933 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T190056\_20190204T190448\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T194434\_20190204T200130\_C001 CS OFFL SIR NOPM 2 20190204T200359 20190204T200832 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T200854\_20190204T201027\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T201427\_20190204T204015\_C001 CS OFFL SIR NOPM 2 20190204T211441 20190204T214110 C001 CS OFFL SIR NOPM 2 20190204T214226 20190204T214733 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T214752\_20190204T215117\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T215335\_20190204T220548\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T221123\_20190204T222623\_C001 CS OFFL SIR NOPM 2 20190204T225217 20190204T232038 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T232209\_20190204T232647\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190204T232649\_20190204T233023\_C001 CS OFFL SIR NOPM 2 20190204T233254 20190205T000805 C001 CS\_OFFL\_SIR\_NOPN\_2\_20190204T074610\_20190204T074834\_C001 CS\_OFFL\_SIR\_NOPN\_2\_20190204T214746\_20190204T214752\_C001 CS OFFL SIR NOPN 2 20190204T232046 20190204T232209 C001 CS\_OFFL\_SIR\_NOPR\_2\_20190204T094951\_20190204T095526\_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 SWH Averaging Status, Ocean Backscatter Averaging Status

Ice 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 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

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

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

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

Ice 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 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 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 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 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 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 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.

CS\_OFFL\_SIR\_NOPR\_2\_20190204T114605\_20190204T114824\_C001

CS\_OFFL\_SIR\_NOPR\_2\_20190204T180444\_20190204T180646\_C001

CS\_OFFL\_SIR\_NOPR\_2\_20190204T232038\_20190204T232046\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status 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.

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.

## 5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. 58

Number of products with errors: