

# IDEAS+ Daily Report for NOP data:

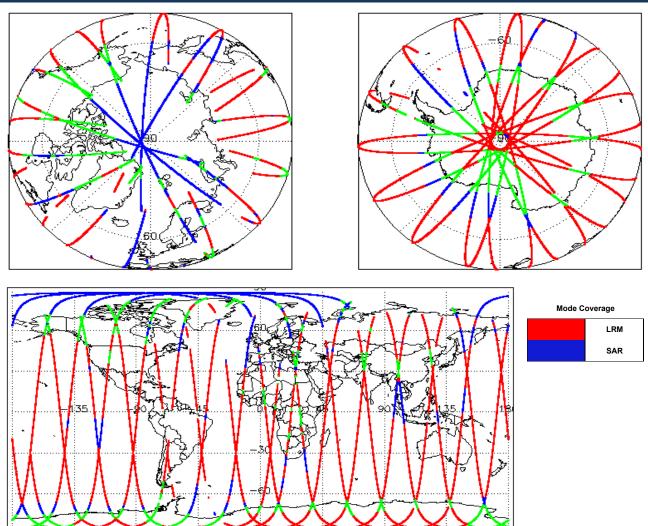
# <u>03/03/2019</u>

1. Overview			
Report Production:	04-Mar-2019	Check	L1 & L2
		Server check: science-pds.cryosat.esa.int	Nominal
Deserves and the set	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:		Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Product Format Check	Nominal
Data Useu.		Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7
		Ocean Retracking Quality Check	See Section 5.8
		·	

# Mission / Instrument News 02-Mar-2019 None 03-Mar-2019 None



2. Global Coverage



# 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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190303T163241_20190303T164212_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190303T173238_20190303T173748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190303T212952_20190303T213546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T044417_20190303T044528_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T044657_20190303T044920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T052608_20190303T052954_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T062615_20190303T062801_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T075715_20190303T075732_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T110411_20190303T110612_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T111604_20190303T111654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190303T210342_20190303T210941_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190303T034307_20190303T034902_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190303T125709_20190303T130717_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. 81

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190303T000900_20190303T002849_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T003015_20190303T003525_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T004042_20190303T011540_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190303T013958\_20190303T014432\_C001 CS OFFL SIR NOPM 2 20190303T014515 20190303T020250 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T020544\_20190303T020735\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T022120\_20190303T025059\_C001 CS OFFL SIR NOPM 2 20190303T031021 20190303T032848 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T032940\_20190303T034307\_C001 CS OFFL SIR NOPM 2 20190303T035138 20190303T035336 C001 CS OFFL SIR NOPM 2 20190303T035458 20190303T035838 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T040017\_20190303T041558\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T041800\_20190303T042721\_C001 CS OFFL SIR NOPM 2 20190303T044529 20190303T044657 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T045045\_20190303T045127\_C001 CS OFFL SIR NOPM 2 20190303T045517 20190303T050640 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T052250\_20190303T052404\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T052954\_20190303T053303\_C001 CS OFFL SIR NOPM 2 20190303T053931 20190303T055501 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T063257\_20190303T070547\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T070812\_20190303T071027\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T071037\_20190303T071633\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T071847\_20190303T074455\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T081600\_20190303T082720\_C001 CS OFFL SIR NOPM 2 20190303T083255 20190303T084431 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T085023\_20190303T085441\_C001 CS OFFL SIR NOPM 2 20190303T085734 20190303T092434 C001 CS OFFL SIR NOPM 2 20190303T095031 20190303T100633 C001 CS OFFL SIR NOPM 2 20190303T100820 20190303T102336 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T103635\_20190303T104256\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T111411\_20190303T111525\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T112845\_20190303T120318\_C001 CS OFFL SIR NOPM 2 20190303T120837 20190303T121349 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T121533\_20190303T123529\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T130717\_20190303T134110\_C001 CS OFFL SIR NOPM 2 20190303T134619 20190303T134837 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T134843\_20190303T135255\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T135452\_20190303T142324\_C001 CS OFFL SIR NOPM 2 20190303T143333 20190303T143514 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T144904\_20190303T145811\_C001 CS OFFL SIR NOPM 2 20190303T150454 20190303T152039 C001 CS OFFL SIR NOPM 2 20190303T152215 20190303T152735 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T152741\_20190303T152748\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T152754\_20190303T153000\_C001 CS OFFL SIR NOPM 2 20190303T153506 20190303T153519 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T153850\_20190303T155110\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T155314\_20190303T160510\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T160748\_20190303T160944\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T163241\_20190303T164212\_C001 CS OFFL SIR NOPM 2 20190303T164414 20190303T165945 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T170141\_20190303T170636\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T170639\_20190303T170646\_C001 CS OFFL SIR NOPM 2 20190303T170653 20190303T170704 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T170710\_20190303T170827\_C001

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

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CS_OFFL_SIR_NOPM_2_20190303T171439_20190303T171702_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T173238_20190303T173748_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T173823_20190303T174535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T182215_20190303T183859_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T184125_20190303T184602_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T185155_20190303T192655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T195158_20190303T201841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T201958_20190303T202503_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T202522_20190303T202847_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T203106_20190303T204317_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T204851_20190303T205845_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T205921_20190303T210342_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T213550_20190303T215807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T215938_20190303T220417_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T221025_20190303T224535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T232944_20190303T233228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T233428_20190303T233735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T233921_20190303T234443_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T235015_20190304T001250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190303T053740_20190303T053925_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T055502_20190303T055955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T075732_20190303T075833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T100633_20190303T100820_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T120318_20190303T120519_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T135403_20190303T135452_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T215807_20190303T215814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190303T233736_20190303T233755_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. 75

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190303T000900_20190303T002849_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_20190303T003015_20190303T003525_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T004042_20190303T011540_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_20190303T014515_20190303T020250_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_20190303T022120_20190303T025059_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_20190303T031021_20190303T032848_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_20190303T032940_20190303T034307_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_20190303T035458_20190303T035838_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T040017_20190303T041558_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_20190303T041800_20190303T042721_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_20190303T045045_20190303T045127_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_20190303T045517_20190303T050640_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_20190303T052954_20190303T053303_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T053305_20190303T053739_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190303T053931_20190303T055501_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_20190303T063257_20190303T070547_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\_20190303T071037\_20190303T071633\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T071847\_20190303T074455\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T081600\_20190303T082720\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T083255\_20190303T084431\_C001 CS OFFL SIR NOPM 2 20190303T085023 20190303T085441 C001 CS OFFL SIR NOPM 2 20190303T085734 20190303T092434 C001 CS OFFL SIR NOPM 2 20190303T095031 20190303T100633 C001 CS OFFL SIR NOPM 2 20190303T100820 20190303T102336 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T103635\_20190303T104256\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T111411\_20190303T111525\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T112845\_20190303T120318\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T120837\_20190303T121349\_C001 CS OFFL SIR NOPM 2 20190303T121533 20190303T123529 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T130717\_20190303T134110\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T134619\_20190303T134837\_C001 CS OFFL SIR NOPM 2 20190303T134843 20190303T135255 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T135452\_20190303T142324\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T143333\_20190303T143514\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T144904\_20190303T145811\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T150454\_20190303T152039\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T152215\_20190303T152735\_C001 CS OFFL SIR NOPM 2 20190303T152741 20190303T152748 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T153506\_20190303T153519\_C001 CS OFFL SIR NOPM 2 20190303T155314 20190303T160510 C001 CS OFFL SIR NOPM 2 20190303T160748 20190303T160944 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T163241\_20190303T164212\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T164414\_20190303T165945\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T170141\_20190303T170636\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T170639\_20190303T170646\_C001 CS OFFL SIR NOPM 2 20190303T170653 20190303T170704 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T170710\_20190303T170827\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T171439\_20190303T171702\_C001 CS OFFL SIR NOPM 2 20190303T173238 20190303T173748 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T173823\_20190303T174535\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T182215\_20190303T183859\_C001 CS OFFL SIR NOPM 2 20190303T184125 20190303T184602 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T185155\_20190303T192655\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T195158\_20190303T201841\_C001 CS OFFL SIR NOPM 2 20190303T201958 20190303T202503 C001 CS OFFL SIR NOPM 2 20190303T202522 20190303T202847 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T203106\_20190303T204317\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T204851\_20190303T205845\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T205921\_20190303T210342\_C001 CS OFFL SIR NOPM 2 20190303T213550 20190303T215807 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T215938\_20190303T220417\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T221025\_20190303T224535\_C001 CS OFFL SIR NOPM 2 20190303T225846 20190303T230026 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T232944\_20190303T233228\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T233428\_20190303T233735\_C001 CS OFFL SIR NOPM 2 20190303T233921 20190303T234443 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190303T235015\_20190304T001250\_C001 Ice Backscatter Averaging Status records 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 more records. 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 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 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice 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 Ice Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean atter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status 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.

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

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

CS_OFFL_SIR_NOPN_2_20190303T053740_20190303T053	925_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor
CS_OFFL_SIR_NOPR_2_20190303T055502_20190303T055		SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor
CS_OFFL_SIR_NOPR_2_20190303T075732_20190303T075	833_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor
CS_OFFL_SIR_NOPR_2_20190303T100633_20190303T100	820 CO01	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor
CS_OFFL_SIR_NOPR_2_20190303T120318_20190303T120	519_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor
CS_OFFL_SIR_NOPR_2_20190303T135403_20190303T135	452_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor
CS_OFFL_SIR_NOPR_2_20190303T215807_20190303T215	814_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more record
CS_OFFL_SIR_NOPR_2_20190303T233736_20190303T233	755_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH a more recor

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

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

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## 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors: