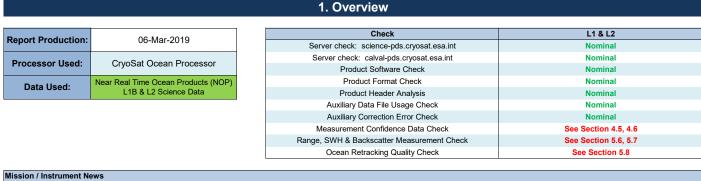
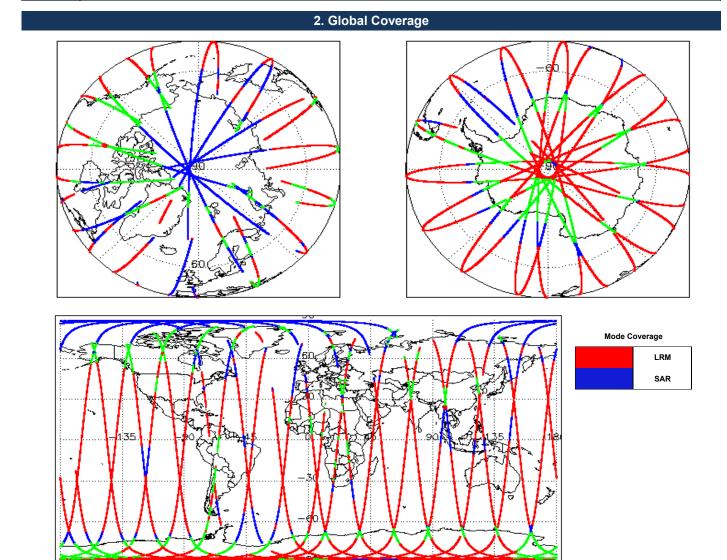


# IDEAS+ Daily Report for NOP data:

# 05/03/2019



## 04-Mar-2019 None 05-Mar-2019 None 06-Mar-2019 Nothing planned



## 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.

11

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190305T163016_20190305T163948_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T044425_20190305T044636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T052349_20190305T052725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T062110_20190305T062335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T070357_20190305T070547_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T075603_20190305T075635_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T094313_20190305T094756_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T111356_20190305T111425_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190305T230511_20190305T230716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190305T024821_20190305T025303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190305T125445_20190305T130453_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:

531	21	Auxiliarv	Data	File	Ilsane	Check
J.J I			ναια		Usaue	CHECK

Each product is checked for missing Data Set Des	criptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0

#### 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

#### 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. 72

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190305T000633_20190305T002616_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T002749_20190305T003259_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T003816_20190305T011258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T013732_20190305T014200_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T014249_20190305T020026_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190305T020322\_20190305T020500\_C001 CS OFFL SIR NOPM 2 20190305T021858 20190305T024821 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T030800\_20190305T032614\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T032715\_20190305T034050\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T034911\_20190305T035110\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T035228\_20190305T035612\_C001 CS OFFL SIR NOPM 2 20190305T035753 20190305T041331 C001 CS OFFL SIR NOPM 2 20190305T041532 20190305T042454 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T044302\_20190305T044425\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T045242\_20190305T050415\_C001 CS OFFL SIR NOPM 2 20190305T052018 20190305T052138 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T052725\_20190305T053514\_C001 CS OFFL SIR NOPM 2 20190305T053703 20190305T055235 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T063032\_20190305T070322\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T070547\_20190305T070800\_C001 CS OFFL SIR NOPM 2 20190305T070816 20190305T071405 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T071630\_20190305T074217\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T081334\_20190305T082455\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T083031\_20190305T084223\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T084758\_20190305T085220\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T085510\_20190305T092334\_C001 CS OFFL SIR NOPM 2 20190305T094757 20190305T102128 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T102708\_20190305T103245\_C001 CS OFFL SIR NOPM 2 20190305T103406 20190305T104029 C001 CS OFFL SIR NOPM 2 20190305T112626 20190305T120051 C001 CS OFFL SIR NOPM 2 20190305T120611 20190305T121123 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T121308\_20190305T123307\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T130453\_20190305T133835\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T134344\_20190305T134610\_C001 CS OFFL SIR NOPM 2 20190305T134617 20190305T135028 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T135231\_20190305T142109\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T144735\_20190305T145545\_C001 CS OFFL SIR NOPM 2 20190305T150026 20190305T150203 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T150206\_20190305T151811\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T151950\_20190305T152509\_C001 CS OFFL SIR NOPM 2 20190305T152528 20190305T152732 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T153615\_20190305T154844\_C001 CS OFFL SIR NOPM 2 20190305T155058 20190305T160300 C001 CS OFFL SIR NOPM 2 20190305T160527 20190305T160703 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T163016\_20190305T163948\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T164224\_20190305T165726\_C001 CS OFFL SIR NOPM 2 20190305T165915 20190305T170420 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T171210\_20190305T171405\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T173220\_20190305T173434\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T173557\_20190305T173946\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T181933\_20190305T183632\_C001 CS OFFL SIR NOPM 2 20190305T183906 20190305T184336 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T184358\_20190305T184532\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T184926\_20190305T192429\_C001 CS OFFL SIR NOPM 2 20190305T194948 20190305T201610 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T201730\_20190305T202250\_C001

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 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 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 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 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 Ice Range Averaging Status

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CS_OFFL_SIR_NOPM_2_20190305T202256_20190305T202621_C001	Ice Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T202839_20190305T204050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T204625_20190305T210126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T212824_20190305T215545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T215715_20190305T220527_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T220800_20190305T224304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T225603_20190305T225758_C001	Ocean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T232701_20190305T233511_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190305T233656_20190305T234216_C001		The Ice Range Averaging Status Flag has been set for one or more records.
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_NOPN_2_20190305T021201_20190305T021727_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190305T044151_20190305T044302_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190305T125338_20190305T125445_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190305T062550_20190305T062628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190305T144314_20190305T144735_C001	Ocean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190305T174431_20190305T174648_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.

67

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190305T000633_20190305T002616_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190305T002749_20190305T003259_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20190305T003816_20190305T011258_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T014249_20190305T020026_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 20190305T020322 20190305T020500 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_011E_311C_100F141_2_201903031020322_201903031020300_0001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T021858_20190305T024821_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190305T030800_20190305T032614_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T032715_20190305T034050_C001	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
CS_OFFL_SIR_NOPM_2_20190305T034911_20190305T035110_C001	Ice Backscatter Averaging Status	records.
CS OFFL SIR NOPM 2 20190305T035228 20190305T035612 C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190305T035753_20190305T041331_C001	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190305T041532 20190305T042454 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T044302_20190305T044425_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190305T045242_20190305T050415_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T052018_20190305T052138_C001	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
CS_OFFL_SIR_NOPM_2_20190305T052725_20190305T053514_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20190305T053703_20190305T055235_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190305T063032_20190305T070322_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T070547_20190305T070800_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
	loo Daolooador / Horaging Claudo	records.
CS_OFFL_SIR_NOPM_2_20190305T070816_20190305T071405_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS OFFL SIR NOPM 2 20190305T071630 20190305T074217 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_011 E_311_10FM1_2_201903031071030_201903031074217_0001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T081334_20190305T082455_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190305T083031_20190305T084223_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T084758_20190305T085220_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190305T085510_20190305T092334_C001	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190305T094757 20190305T102128 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190305T102708_20190305T103245_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190305T103406\_20190305T104029\_C001 CS OFFL SIR NOPM 2 20190305T111141 20190305T111307 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T112626\_20190305T120051\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T120611\_20190305T121123\_C001 CS OFFL SIR NOPM 2 20190305T121308 20190305T123307 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T130453\_20190305T133835\_C001 CS OFFL SIR NOPM 2 20190305T134617 20190305T135028 C001 CS OFFL SIR NOPM 2 20190305T135231 20190305T142109 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T144735\_20190305T145545\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T150206\_20190305T151811\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T153615\_20190305T154844\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T155058\_20190305T160300\_C001 CS OFFL SIR NOPM 2 20190305T160527 20190305T160703 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T163016\_20190305T163948\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T164224\_20190305T165726\_C001 CS OFFL SIR NOPM 2 20190305T165915 20190305T170420 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T171210\_20190305T171405\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T173220\_20190305T173434\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T173557\_20190305T173946\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T181933\_20190305T183632\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T183906\_20190305T184336\_C001 CS OFFL SIR NOPM 2 20190305T184358 20190305T184532 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T184926\_20190305T192429\_C001 CS OFFL SIR NOPM 2 20190305T194948 20190305T201610 C001 CS OFFL SIR NOPM 2 20190305T201730 20190305T202250 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T202256\_20190305T202621\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T202839\_20190305T204050\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T204625\_20190305T210126\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T212824\_20190305T215545\_C001 CS OFFL SIR NOPM 2 20190305T215715 20190305T220527 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T220800\_20190305T224304\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T225603\_20190305T225758\_C001 CS OFFL SIR NOPM 2 20190305T232701 20190305T233511 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T233656\_20190305T234216\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190305T234729\_20190306T001024\_C001 CS OFFL SIR NOPN 2 20190305T044151 20190305T044302 C001 CS\_OFFL\_SIR\_NOPN\_2\_20190305T125338\_20190305T125445\_C001 CS OFFL SIR NOPR 2 20190305T062550 20190305T062628 C001 CS OFFL SIR NOPR 2 20190305T144314 20190305T144735 C001 CS\_OFFL\_SIR\_NOPR\_2\_20190305T174431\_20190305T174648\_C001

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

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 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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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.

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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.