

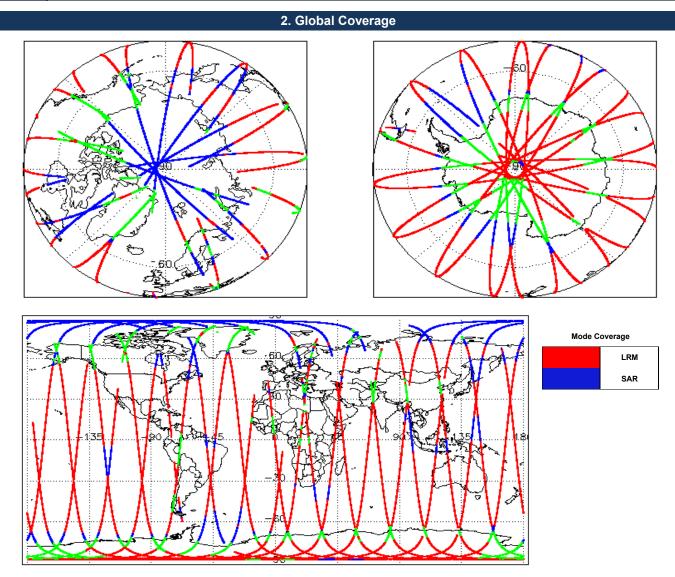
# IDEAS+ Daily Report for NOP data:

## 13/03/2019

Report Production:	14-Mar-2019 -	Check	L1 & L2
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Dete Heads	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 and 5.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7
		Ocean Retracking Quality Check	See Section 5.8

#### 12-Mar-2019 None 13-Mar-2019 None

14-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.

## 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.
Number of products with errors:
1

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190313T031731_20190313T033139_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.

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## Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190313T040543_20190313T041505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190313T044305_20190313T045410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190313T050018_20190313T050632_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190313T080328_20190313T081511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190313T162035_20190313T163101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190313T172137_20190313T172450_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190313T043208_20190313T043316_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190313T050632_20190313T050951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190313T084411_20190313T084534_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190313T183615_20190313T183903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T033139_20190313T033639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T043534_20190313T044007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T044113_20190313T044304_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T092033_20190313T092234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T105130_20190313T105227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T123133_20190313T123203_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190313T174206_20190313T174819_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Number of products with errors:

#### 5.5 L2 Measurement Confidence Data Check

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

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190313T031731_20190313T033139_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Range Measurement Check

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

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

ean 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 Faile Description The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190312T235640\_20190313T001621\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T002829\_20190313T010303\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T012748 20190313T013222 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T013305 20190313T015045 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T015349 20190313T015440 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T020019 20190313T020215 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T020901\_20190313T022634\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T023115 20190313T023830 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T025827\_20190313T031554\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T031731\_20190313T033139\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T033923\_20190313T034125\_C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T034227 20190313T034627 C001 Ice Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T034805\_20190313T040342\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T040543\_20190313T041505\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T044305 20190313T045410 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T050018\_20190313T050632\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T050951\_20190313T051434\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T051725 20190313T052529 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T052720\_20190313T054255\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T061938\_20190313T063002\_C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T063004 20190313T065333 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T065605\_20190313T065811\_C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T065843 20190313T070412 C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T070639\_20190313T073157\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T080328\_20190313T081511\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T082049 20190313T083227 C001 Ocean Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T083813\_20190313T084258\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T084534\_20190313T091509\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T092234 20190313T092334 C001 Ocean Range Averaging Status ecords. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T093740\_20190313T101149\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T101722\_20190313T102252\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T102417 20190313T103040 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T110141\_20190313T110344\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T111701\_20190313T115115\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T115624 20190313T120137 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T120317\_20190313T122316\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T125517\_20190313T132858\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T133204\_20190313T133624\_C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T133642 20190313T134037 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T134238 20190313T141850 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T143838\_20190313T144600\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T145206\_20190313T150826\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190313T151005 20190313T151522 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T152554\_20190313T153859\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20190313T154113\_20190313T155310\_C001 Ocean Range Averaging Status records

CC OFFL CID NODN 0 20002000000000000000000000000000000	Ocean Dense Augusting Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190313T162035_20190313T163101_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190313T163241_20190313T164741_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20190313T164930_20190313T165433_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T165457_20190313T165611_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T170304_20190313T170403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T171042_20190313T171510_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T172137_20190313T172450_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T172613_20190313T173322_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T180502_20190313T182643_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T182947_20190313T183349_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T183945_20190313T191443_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T194040_20190313T200621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T200737_20190313T201303_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T201309_20190313T201635_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T201849_20190313T203102_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T203639_20190313T205226_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T211729_20190313T213701_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T213928_20190313T214604_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T214738_20190313T215541_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T215820_20190313T223254_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T224613_20190313T224714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T230748_20190313T231551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T231603_20190313T232532_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T232713_20190313T233229_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T233749_20190314T000039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190313T001647_20190313T001803_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190313T065811_20190313T065843_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190313T232548_20190313T232713_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190313T115115_20190313T115302_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190313T215653_20190313T215819_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. 69

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190312T235640_20190313T001621_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_20190313T002829_20190313T010303_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_20190313T013305_20190313T015045_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_20190313T020901_20190313T022634_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_20190313T023115_20190313T023830_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_20190313T025827_20190313T031554_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_20190313T031731_20190313T033139_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_20190313T033923_20190313T034125_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T034227_20190313T034627_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190313T034805_20190313T040342_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_20190313T040543_20190313T041505_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_20190313T044305_20190313T045410_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_20190313T050018_20190313T050632_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\_20190313T050951\_20190313T051434\_C001 CS OFFL SIR NOPM 2 20190313T051725 20190313T052529 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T052720\_20190313T054255\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T061938\_20190313T063002\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T063004\_20190313T065333\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T065843\_20190313T070412\_C001 CS OFFL SIR NOPM 2 20190313T070639 20190313T073157 C001 CS OFFL SIR NOPM 2 20190313T080328 20190313T081511 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T082049\_20190313T083227\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T083813\_20190313T084258\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T084534\_20190313T091509\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T092234\_20190313T092334\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T093740\_20190313T101149\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T101722\_20190313T102252\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T110141\_20190313T110344\_C001 CS OFFL SIR NOPM 2 20190313T111701 20190313T115115 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T115624\_20190313T120137\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T120317\_20190313T122316\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T125517\_20190313T132858\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T133204\_20190313T133624\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T133642\_20190313T134037\_C001 CS OFFL SIR NOPM 2 20190313T134238 20190313T141850 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T143838\_20190313T144600\_C001 CS OFFL SIR NOPM 2 20190313T145206 20190313T150826 C001 CS OFFL SIR NOPM 2 20190313T151005 20190313T151522 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T152554\_20190313T153859\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T154113\_20190313T155310\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T162035\_20190313T163101\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T163241\_20190313T164741\_C001 CS OFFL SIR NOPM 2 20190313T164930 20190313T165433 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T165457\_20190313T165611\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T170304\_20190313T170403\_C001 CS OFFL SIR NOPM 2 20190313T171042 20190313T171510 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T172613\_20190313T173322\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T180502\_20190313T182643\_C001 CS OFFL SIR NOPM 2 20190313T182947 20190313T183349 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T183945\_20190313T191443\_C001 CS OFFL SIR NOPM 2 20190313T194040 20190313T200621 C001 CS OFFL SIR NOPM 2 20190313T200737 20190313T201303 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T201309\_20190313T201635\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T201849\_20190313T203102\_C001 CS OFFL SIR NOPM 2 20190313T203639 20190313T205226 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T211729\_20190313T213701\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T213928\_20190313T214604\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T214738\_20190313T215541\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T215820\_20190313T223254\_C001 CS OFFL SIR NOPM 2 20190313T224613 20190313T224714 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T230748\_20190313T231551\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T231603\_20190313T232532\_C001 CS OFFL SIR NOPM 2 20190313T232713 20190313T233229 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190313T233749\_20190314T000039\_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 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

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

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

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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

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 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.

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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.

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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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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.

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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.

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_20190313T001647_20190313T001803_C001	LICE BACKSCATTER AVERAGING STATUS	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190313T065811_20190313T065843_C001	lice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190313T232548_20190313T232713_C001	lice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS OFFE SIR NOPR 2 201903131115115 201903131115302 CO01	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	00	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: