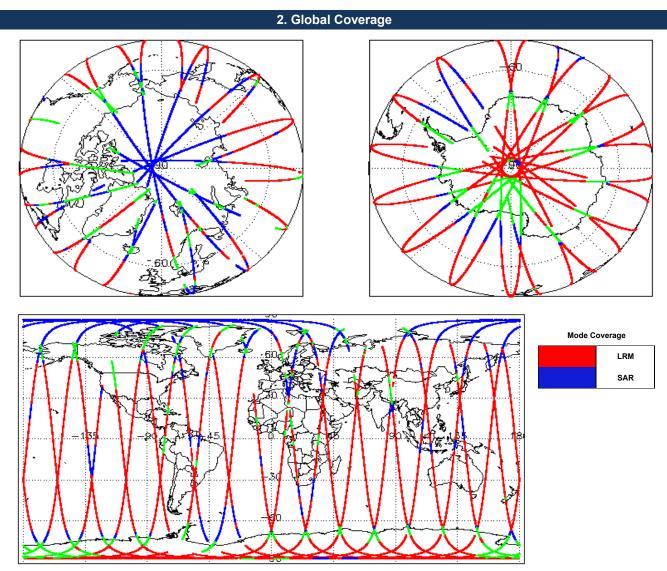


# IDEAS+ Daily Report for NOP data:

# 02/04/2019



Mission / Instrument News		
01-Apr-2019	None	
02-Apr-2019	None	
03-Apr-2019	SIRAL unavailability on 03-Apr-2019 from 10:41:48 to 12:28:00 due to a planned orbit manoeuvre.	



# 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.

10

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190402T034019_20190402T035459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190402T142821_20190402T144408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190402T014220_20190402T014416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190402T054710_20190402T055200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190402T081943_20190402T082109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190402T103418_20190402T103545_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190402T003808_20190402T003958_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190402T005016_20190402T005418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190402T145513_20190402T150020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190402T152812_20190402T153003_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).

0

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. 85

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190402T000405_20190402T001050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T001100_20190402T003707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T005602_20190402T012624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T012946_20190402T013008_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T013558_20190402T013751_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T014428_20190402T020048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190402T020652\_20190402T021356\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T022952\_20190402T023326\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T023530\_20190402T023820\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T023902\_20190402T025057\_C001 CS OFFL SIR NOPM 2 20190402T025716 20190402T030851 C001 CS OFFL SIR NOPM 2 20190402T031445 20190402T031705 C001 CS OFFL SIR NOPM 2 20190402T031739 20190402T032200 C001 CS OFFL SIR NOPM 2 20190402T032338 20190402T033840 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T034019\_20190402T035459\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T041820\_20190402T042424\_C001 CS OFFL SIR NOPM 2 20190402T042547 20190402T043018 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T043349\_20190402T045007\_C001 CS OFFL SIR NOPM 2 20190402T045233 20190402T050108 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T050313\_20190402T052608\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T055429\_20190402T062926\_C001 CS OFFL SIR NOPM 2 20190402T063433 20190402T063908 C001 CS OFFL SIR NOPM 2 20190402T064202 20190402T071141 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T074057\_20190402T075052\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T075629\_20190402T080829\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T081115\_20190402T081122\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T081350\_20190402T081942\_C001 CS OFFL SIR NOPM 2 20190402T082110 20190402T084324 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T084326\_20190402T084855\_C001 CS OFFL SIR NOPM 2 20190402T085838 20190402T085941 C001 CS OFFL SIR NOPM 2 20190402T091218 20190402T094727 C001 CS OFFL SIR NOPM 2 20190402T095257 20190402T095813 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T095946\_20190402T100253\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T100452\_20190402T100647\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T103546\_20190402T103821\_C001 CS OFFL SIR NOPM 2 20190402T103919 20190402T103947 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T105224\_20190402T110100\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T110346\_20190402T112647\_C001 CS OFFL SIR NOPM 2 20190402T113306 20190402T113711 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T113845\_20190402T115216\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T115404\_20190402T120019\_C001 CS OFFL SIR NOPM 2 20190402T120155 20190402T120638 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T123145\_20190402T130451\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T130643\_20190402T131156\_C001 CS OFFL SIR NOPM 2 20190402T132255 20190402T135307 C001 CS OFFL SIR NOPM 2 20190402T141326 20190402T142637 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T142821\_20190402T144408\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T144551\_20190402T145053\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T145113\_20190402T145125\_C001 CS OFFL SIR NOPM 2 20190402T150021 20190402T151031 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T151650\_20190402T152811\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T155054\_20190402T160154\_C001 CS OFFL SIR NOPM 2 20190402T160359 20190402T160641 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T160821\_20190402T162304\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T162505\_20190402T163004\_C001 CS OFFL SIR NOPM 2 20190402T163046 20190402T163150 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T163636\_20190402T170026\_C001 Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean 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 Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status

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CS_OFFL_SIR_NOPM_2_20190402T170055_20190402T171019_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T173945_20190402T180238_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T180928_20190402T180937_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T180943_20190402T181304_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T181526_20190402T184437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T191506_20190402T194158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T194331_20190402T194835_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T194842_20190402T195209_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T195451_20190402T200640_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T201217_20190402T202938_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T205208_20190402T210226_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T211520_20190402T212151_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T212329_20190402T212907_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T213018_20190402T213108_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T213414_20190402T220817_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T222208_20190402T222304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T224139_20190402T230119_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T230253_20190402T230801_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T231319_20190402T234803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T022831_20190402T022952_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T094944_20190402T095256_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T113712_20190402T113836_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T180921_20190402T180928_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T005016_20190402T005418_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T115216_20190402T115403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T131156_20190402T131202_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T131649_20190402T131829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T141218_20190402T141326_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. 80

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190402T000405_20190402T001050_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_20190402T001100_20190402T003707_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_20190402T005602_20190402T012624_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_20190402T012946_20190402T013008_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_20190402T013558_20190402T013751_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T014428_20190402T020048_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_20190402T020652_20190402T021356_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_20190402T022952_20190402T023326_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T023530_20190402T023820_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_20190402T023902_20190402T025057_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_20190402T025716_20190402T030851_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_20190402T031445_20190402T031705_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T031739_20190402T032200_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T032338_20190402T033840_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_20190402T034019_20190402T035459_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\_20190402T041820\_20190402T042424\_C001 CS OFFL SIR NOPM 2 20190402T042547 20190402T043018 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T043349\_20190402T045007\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T045233\_20190402T050108\_C001 CS OFFL SIR NOPM 2 20190402T050313 20190402T052608 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T055429\_20190402T062926\_C001 CS OFFL SIR NOPM 2 20190402T063433 20190402T063908 C001 CS OFFL SIR NOPM 2 20190402T064202 20190402T071141 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T074057\_20190402T075052\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T075629\_20190402T080829\_C001 CS OFFL SIR NOPM 2 20190402T081350 20190402T081942 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T082110\_20190402T084324\_C001 CS OFFL SIR NOPM 2 20190402T084326 20190402T084855 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T091218\_20190402T094727\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T095257\_20190402T095813\_C001 CS OFFL SIR NOPM 2 20190402T100452 20190402T100647 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T103546\_20190402T103821\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T103919\_20190402T103947\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T105224\_20190402T110100\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T110346\_20190402T112647\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T113306\_20190402T113711\_C001 CS OFFL SIR NOPM 2 20190402T113845 20190402T115216 C001 CS OFFL SIR NOPM 2 20190402T115404 20190402T120019 C001 CS OFFL SIR NOPM 2 20190402T123145 20190402T130451 C001 CS OFFL SIR NOPM 2 20190402T130643 20190402T131156 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T132255\_20190402T135307\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T141326\_20190402T142637\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T142821\_20190402T144408\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T144551\_20190402T145053\_C001 CS OFFL SIR NOPM 2 20190402T145113 20190402T145125 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T151650\_20190402T152811\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T155054\_20190402T160154\_C001 CS OFFL SIR NOPM 2 20190402T160359 20190402T160641 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T160821\_20190402T162304\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T162505\_20190402T163004\_C001 CS OFFL SIR NOPM 2 20190402T163046 20190402T163150 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T163636\_20190402T170026\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T170055\_20190402T171019\_C001 CS OFFL SIR NOPM 2 20190402T173945 20190402T180238 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T180928\_20190402T180937\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T180943\_20190402T181304\_C001 CS OFFL SIR NOPM 2 20190402T181526 20190402T184437 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T191506\_20190402T194158\_C001 CS OFFL SIR NOPM 2 20190402T194331 20190402T194835 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T194842\_20190402T195209\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T195451\_20190402T200640\_C001 CS OFFL SIR NOPM 2 20190402T201217 20190402T202938 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T205208\_20190402T210226\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T211520\_20190402T212151\_C001 CS OFFL SIR NOPM 2 20190402T212329 20190402T212907 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190402T213018\_20190402T213108\_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

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

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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 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean

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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 SWH Averaging Status, Ocean Backscatter Averaging Status

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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

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.

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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.

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 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 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.

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

CS_OFFL_SIR_NOPM_2_20190402T213414_20190402T220817_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_20190402T222208_20190402T222304_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_20190402T224139_20190402T230119_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_20190402T230253_20190402T230801_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190402T231319_20190402T234803_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T022831_20190402T022952_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T094944_20190402T095256_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T113712_20190402T113836_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190402T180921_20190402T180928_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T005016_20190402T005418_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T115216_20190402T115403_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T131156_20190402T131202_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T131649_20190402T131829_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190402T141218_20190402T141326_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 5.8 L2 Ocean Retracking Quality Check

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

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. 53

Number of products with errors: