

### 1. Overview

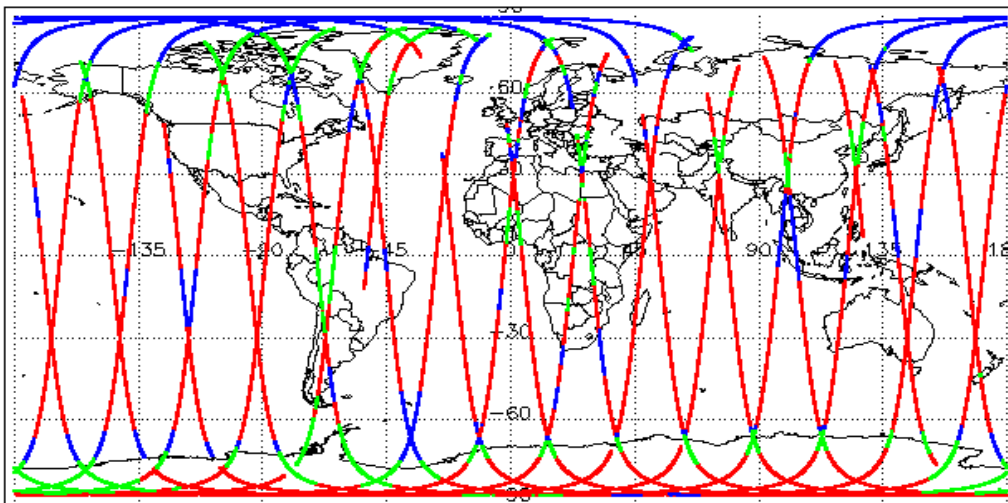
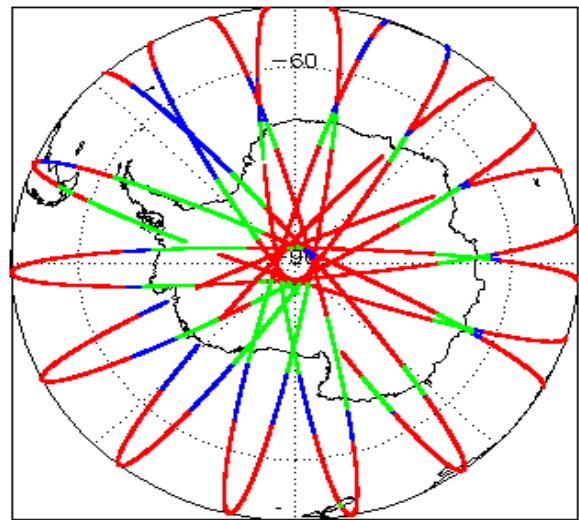
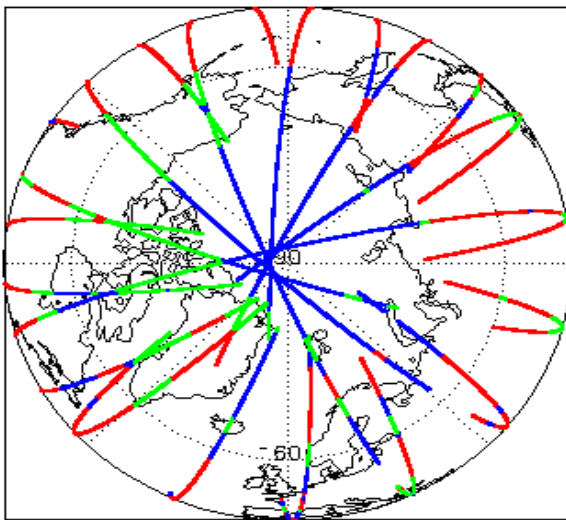
<b>Report Production:</b>	31-Jan-2018
<b>Processor Used:</b>	CryoSat Ocean Processor
<b>Data Used:</b>	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 5.2
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**

29-Jan-2018	None
30-Jan-2018	None
31-Jan-2018	Nothing planned

### 2. Global Coverage



### 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

<b>SIRAL instrument(s) in use:</b>	SIRAL - A
------------------------------------	-----------

### 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: 0

#### 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 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: 0

### 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.

Number of products with errors: 50

Product	Test Failed	Description
CS_OFFL_SIR_NOPR1B_20180130T011923_20180130T011952_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T013459_20180130T014240_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T020917_20180130T021135_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T025844_20180130T025905_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T033902_20180130T034326_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T043731_20180130T043757_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T050739_20180130T050822_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T051306_20180130T051531_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T060305_20180130T060551_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T064329_20180130T064408_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T082353_20180130T082501_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T082621_20180130T082654_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T092059_20180130T092233_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T092836_20180130T092842_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T093541_20180130T093625_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T101628_20180130T102347_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T102537_20180130T102609_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T102612_20180130T102614_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T102616_20180130T102749_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T110035_20180130T110039_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T110747_20180130T110753_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T113108_20180130T113308_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T114628_20180130T114717_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T125712_20180130T130029_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T133428_20180130T134121_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T134138_20180130T134141_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T134707_20180130T134708_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T135516_20180130T135631_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T135631_20180130T140021_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T143108_20180130T143214_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T155818_20180130T155842_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T162314_20180130T162848_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T163843_20180130T163957_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T165730_20180130T165843_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T165918_20180130T170139_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T170647_20180130T170723_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T184703_20180130T184733_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T195248_20180130T195534_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T201642_20180130T201715_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T202210_20180130T202414_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T202448_20180130T202501_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T202647_20180130T202814_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T204144_20180130T204332_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T205520_20180130T205522_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T205648_20180130T205736_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T214152_20180130T214249_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T214253_20180130T214514_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T220002_20180130T220140_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T232105_20180130T232117_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180130T232614_20180130T232625_C001	Attitude correction missing	The attitude has not been corrected

### 4.6 L1B Waveform Group Data Check

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

**Loss of Echo Flag:** This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

23

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180130T065411_20180130T065523_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T070844_20180130T074257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T104253_20180130T104431_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T121243_20180130T122214_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T122416_20180130T123929_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T131407_20180130T132533_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T145616_20180130T150653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T002417_20180130T002529_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T002700_20180130T002924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T010606_20180130T010841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T011738_20180130T011923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T020337_20180130T020601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T065601_20180130T065654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T070651_20180130T070844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T133025_20180130T133427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T184736_20180130T184944_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T202056_20180130T202210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180130T233326_20180130T233447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180130T033732_20180130T033833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180130T033902_20180130T034326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180130T082353_20180130T082501_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180130T132656_20180130T133025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180130T223120_20180130T223818_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:

1

Product	Test Failed
CS_OFFL_SIR_NOPR_2_20180130T122214_20180130T122304_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

### 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:

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:

0

### 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.

Number of products with errors:

77

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180129T235757_20180130T000719_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T002529_20180130T002700_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T003002_20180130T003152_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T003451_20180130T004642_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T010252_20180130T010404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T010600_20180130T010606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T010955_20180130T011301_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.





CS_OFFL_SIR_NOPM_2_20180130T193027_20180130T195248_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T195534_20180130T200454_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T201715_20180130T202056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T203655_20180130T204144_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T204332_20180130T205648_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T205923_20180130T210341_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T210955_20180130T211550_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T211559_20180130T214152_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T220140_20180130T223120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T224920_20180130T230707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T231147_20180130T231854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T233447_20180130T233808_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T234018_20180130T235552_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T033833_20180130T033902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T065319_20180130T065411_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180130T051306_20180130T051531_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180130T111144_20180130T111344_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180130T113108_20180130T113308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180130T140030_20180130T140221_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.

**Number of products with errors:** 78

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180129T235757_20180130T000719_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_20180130T002529_20180130T002700_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T003002_20180130T003152_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_20180130T003451_20180130T004642_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_20180130T010252_20180130T010404_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_20180130T010600_20180130T010606_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_20180130T010955_20180130T011301_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T011304_20180130T011738_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T011952_20180130T013459_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_20180130T021258_20180130T024539_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_20180130T024811_20180130T025026_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T025033_20180130T025632_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T025905_20180130T032456_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_20180130T035750_20180130T040722_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_20180130T041256_20180130T042348_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_20180130T043757_20180130T050414_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_20180130T053035_20180130T054635_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_20180130T054902_20180130T060305_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_20180130T060932_20180130T061512_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T061644_20180130T062254_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_20180130T065411_20180130T065523_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_20180130T070844_20180130T074257_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_20180130T074836_20180130T075348_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180130T075544_20180130T081524_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_20180130T111144_20180130T111344_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_20180130T113108_20180130T113308_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_20180130T140030_20180130T140221_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.

**Number of products with errors:** 50

---