

# IDEAS+ Daily Report for NOP data:

# 25/01/2019

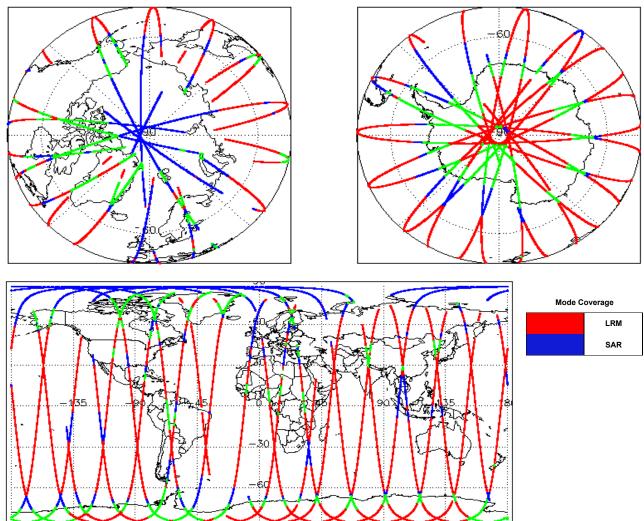


Report Production:	28-Jan-2019	Check	L1 & L2
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used: Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Near Real Time Ocean Products (NOP)	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
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lission / Instrument Ne	ews		
24-Jan-2019 SIRAL u	inavailability on 24-Jan-2019 from 11:57:43 to 12	2:16:02 due to planned on board maintanance	

1. Overview

25-Jan-2019None26-Jan-2019Nothing planned

2. Global Coverage



## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

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 Usag	e Check
, , ,	escriptors 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 Err	or Check
CryoSat L1B data includes a correction error fla	g 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 Confiden	
	fidence flag for each measurement record. The bit value of this flag indicates any problems when set.
Attitude Correction Missing: This flag is curre Number of products with errors:	ntly set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.
4.6 L1B Waveform Group Data	Check
CryoSat L1B data includes a waveform data fla	g for each measurement record. The bit value of this flag indicates any problems when set.
Loss of Echo Flag: This flag is currently set fo	r products over land, but this is to be expected.
Number of products with errors:	17

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190125T014611_20190125T020248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190125T035556_20190125T042827_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190125T130302_20190125T133731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190125T162402_20190125T164018_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190125T212717_20190125T215307_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190125T044014_20190125T044413_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190125T053322_20190125T053449_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190125T065700_20190125T065735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190125T075826_20190125T080045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190125T085126_20190125T085310_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190125T160650_20190125T160851_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190125T030433_20190125T031157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190125T051705_20190125T052347_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190125T065735_20190125T065748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190125T080359_20190125T080619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190125T141857_20190125T142040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190125T192318_20190125T192400_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	
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For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

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

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

#### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

### 5.6 L2 Range Measurement Check

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

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

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 81

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190124T235354_20190125T000328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20190125T000331\_20190125T001245\_C001 CS OFFL SIR NOPM 2 20190125T001717 20190125T002317 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T002527\_20190125T003117\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T003708\_20190125T010022\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T010033\_20190125T011015\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T012409\_20190125T012458\_C001 CS OFFL SIR NOPM 2 20190125T014611 20190125T020248 C001 CS OFFL SIR NOPM 2 20190125T020457 20190125T021009 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T021552\_20190125T023824\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T024109\_20190125T025033\_C001 CS OFFL SIR NOPM 2 20190125T032105 20190125T034030 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T035556\_20190125T042827\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T044500\_20190125T050411\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T050423\_20190125T051705\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T052622\_20190125T052818\_C001 CS OFFL SIR NOPM 2 20190125T053006 20190125T053322 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T053449\_20190125T055044\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T055248\_20190125T060246\_C001 CS OFFL SIR NOPM 2 20190125T062453 20190125T062711 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T062907\_20190125T064125\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T065749\_20190125T065847\_C001 CS OFFL SIR NOPM 2 20190125T070451 20190125T070739 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T070752\_20190125T071222\_C001 CS OFFL SIR NOPM 2 20190125T071430 20190125T072911 C001 CS OFFL SIR NOPM 2 20190125T081615 20190125T084018 C001 CS OFFL SIR NOPM 2 20190125T084251 20190125T085126 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T085352\_20190125T091909\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T095115\_20190125T100527\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T100734\_20190125T101839\_C001 CS OFFL SIR NOPM 2 20190125T102504 20190125T102923 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T103234\_20190125T110017\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T112557\_20190125T114118\_C001 CS OFFL SIR NOPM 2 20190125T114650 20190125T115747 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T120416\_20190125T121002\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T121145\_20190125T121745\_C001 CS OFFL SIR NOPM 2 20190125T124909 20190125T124956 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T130302\_20190125T133731\_C001 CS OFFL SIR NOPM 2 20190125T134321 20190125T134833 C001 CS OFFL SIR NOPM 2 20190125T135031 20190125T140944 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T144209\_20190125T151014\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T151025\_20190125T151600\_C001 CS OFFL SIR NOPM 2 20190125T152133 20190125T152321 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T152328\_20190125T152740\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T160916\_20190125T160956\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T162402\_20190125T164018\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T164021\_20190125T165529\_C001 CS OFFL SIR NOPM 2 20190125T165657 20190125T170219 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T170238\_20190125T170454\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T171328\_20190125T172435\_C001 CS OFFL SIR NOPM 2 20190125T172713 20190125T174401 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T180544\_20190125T181652\_C001

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

CS_OFFL_SIR_NOPM_2_20190125T181855_20190125T183416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T183623_20190125T184117_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T184137_20190125T184148_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T184155_20190125T184313_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T185003_20190125T185448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T190742_20190125T191902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T195812_20190125T201319_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T201557_20190125T202031_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T202649_20190125T205347_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T212717_20190125T215307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T215557_20190125T215945_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T215951_20190125T220000_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T220007_20190125T220332_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T220556_20190125T221804_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T222336_20190125T223330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T225956_20190125T233221_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T233409_20190125T233858_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T234639_20190125T235719_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T061902_20190125T062017_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T121003_20190125T121120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T151722_20190125T152133_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T184800_20190125T184930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T220001_20190125T220006_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T002318_20190125T002401_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T072912_20190125T073051_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T084019_20190125T084104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T100528_20190125T100734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T192318_20190125T192400_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T195036_20190125T195811_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. 76

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190124T235354_20190125T000328_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_20190125T000331_20190125T001245_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_20190125T001717_20190125T002317_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_20190125T002527_20190125T003117_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T003708_20190125T010022_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_20190125T010033_20190125T011015_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_20190125T014611_20190125T020248_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_20190125T020457_20190125T021009_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190125T021552_20190125T023824_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_20190125T024109_20190125T025033_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_20190125T030209_20190125T030245_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_20190125T032105_20190125T034030_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_20190125T035556_20190125T042827_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_20190125T044500_20190125T050411_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\_20190125T050423\_20190125T051705\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T053006\_20190125T053322\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T053449\_20190125T055044\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T055248\_20190125T060246\_C001 CS OFFL SIR NOPM 2 20190125T062453 20190125T062711 C001 CS OFFL SIR NOPM 2 20190125T062907 20190125T064125 C001 CS OFFL SIR NOPM 2 20190125T070451 20190125T070739 C001 CS OFFL SIR NOPM 2 20190125T070752 20190125T071222 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T071430\_20190125T072911\_C001 CS OFFL SIR NOPM 2 20190125T081615 20190125T084018 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T084251\_20190125T085126\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T085352\_20190125T091909\_C001 CS OFFL SIR NOPM 2 20190125T095115 20190125T100527 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T100734\_20190125T101839\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T102504\_20190125T102923\_C001 CS OFFL SIR NOPM 2 20190125T103234 20190125T110017 C001 CS OFFL SIR NOPM 2 20190125T112557 20190125T114118 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T114650\_20190125T115747\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T120416\_20190125T121002\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T121145\_20190125T121745\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T124909\_20190125T124956\_C001 CS OFFL SIR NOPM 2 20190125T130302 20190125T133731 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T134321\_20190125T134833\_C001 CS OFFL SIR NOPM 2 20190125T135031 20190125T140944 C001 CS OFFL SIR NOPM 2 20190125T144209 20190125T151014 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T151025\_20190125T151600\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T152133\_20190125T152321\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T152328\_20190125T152740\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T160916\_20190125T160956\_C001 CS OFFL SIR NOPM 2 20190125T162402 20190125T164018 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T164021\_20190125T165529\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T165657\_20190125T170219\_C001 CS OFFL SIR NOPM 2 20190125T171328 20190125T172435 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T172713\_20190125T174401\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T180544\_20190125T181652\_C001 CS OFFL SIR NOPM 2 20190125T181855 20190125T183416 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T183623\_20190125T184117\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T184155\_20190125T184313\_C001 CS OFFL SIR NOPM 2 20190125T185003 20190125T185448 C001 CS OFFL SIR NOPM 2 20190125T195812 20190125T201319 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T201557\_20190125T202031\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T202649\_20190125T205347\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T212717\_20190125T215307\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T215557\_20190125T215945\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T215951\_20190125T220000\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T220007\_20190125T220332\_C001 CS OFFL SIR NOPM 2 20190125T220556 20190125T221804 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T222336\_20190125T223330\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T225956\_20190125T233221\_C001 CS OFFL SIR NOPM 2 20190125T233409 20190125T233858 C001 CS\_OFFL\_SIR\_NOPM\_2\_20190125T234639\_20190125T235719\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records. Ice Backscatter Averaging Status records. 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SWH Averaging Status, Ocean

Backscatter Averaging Status

The SWH and Ocean Averaging Status Flags have been set for one or more record: The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 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 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 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 The Ice Backscatter Averaging Status Flag has been set for one or more The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 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 The Ice Backscatter Averaging Status Flag has been set for one or more 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 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 The Ice Backscatter Averaging Status Flag has been set for one or more The Ice Backscatter Averaging Status Flag has been set for one or more 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 record The Ice Backscatter Averaging Status Flag has been set for one or more The SWH and Ocean Averaging Status Flags have been set for one or more records

CS_OFFL_SIR_NOPN_2_20190125T003117_20190125T003123_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T121003_20190125T121120_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_20190125T151722_20190125T152133_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190125T184800_20190125T184930_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_20190125T220001_20190125T220006_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190125T002318_20190125T002401_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_20190125T072912_20190125T073051_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_20190125T084019_20190125T084104_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_20190125T100528_20190125T100734_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_20190125T192318_20190125T192400_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_20190125T195036_20190125T195811_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: 52