







1. Overview

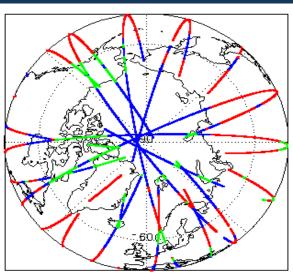
Report Production:	04-Feb-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

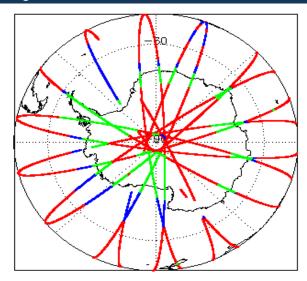
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 5.2
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement 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

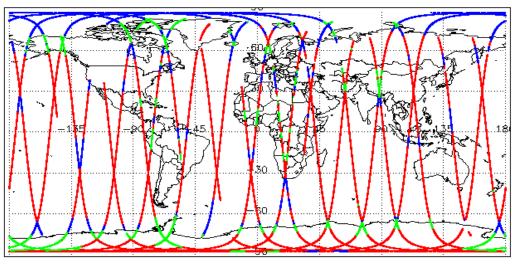
	Mission / Instrument News		
31-Jan-2019		None	
	04 5 1 0040		

01-Feb-2019 None 02-Feb-2019 Nothing 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

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:

C

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.

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.

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:

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.

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:

8

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190201T043647_20190201T044504_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190201T001307_20190201T001432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190201T072249_20190201T072642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190201T083929_20190201T084139_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190201T093134_20190201T093349_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190201T182909_20190201T183123_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190201T003424_20190201T003515_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190201T200947_20190201T201508_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:

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:

71

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190131T233911_20190201T001306_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T005729_20190201T005951_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T010151_20190201T010445_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T010644_20190201T011206_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T011755_20190201T014016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T014302_20190201T015217_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T020444_20190201T020815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190201T022417_20190201T022907_C001 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 records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_NOPM_2_20190201T025717_20190201T030324_C001 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 records. CS_OFFL_SIR_NOPM_2_20190201T030333_20190201T032929_C001 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 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 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_20190201T023034_20190201T030324_C001 CS_OFFL_SIR_NOPM_2_20190201T030334_20190201T030324_C001 CS_OFFL_SIR_NOPM_2_20190201T030333_20190201T032929_C001 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 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_20190201T030333_20190201T030324_C001 CS_OFFL_SIR_NOPM_2_20190201T030333_20190201T032929_C001 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 records. The Ocean Range Averaging Status Flag has been set for one or more records.	
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CS_OFFL_SIR_NOPM_Z_201902011035027_201902011041645_C0011 Ocean Range Averaging Status records.	•
CS_OFFL_SIR_NOPM_2_20190201T043334_20190201T043422_C001	
CS_OFFL_SIR_NOPM_2_20190201T043647_20190201T044504_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T045915_20190201T050638_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T052214_20190201T052527_C001 lce Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T052747_20190201T054315_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	;
CS_OFFL_SIR_NOPM_2_20190201T054529_20190201T060028_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T060706_20190201T060923_C001 lce Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T061001_20190201T061421_C001 lce Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T061604_20190201T063102_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	:
CS_OFFI_SIR_NOPM_2_20190201T063242_20190201T064757_C001 Ocean_Range_Averaging_Status The Ocean Range Averaging Status Flag has been set for one or more	,
records. CS_OFFL_SIR_NOPM_2 _20190201T071050 _20190201T071643 _C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control of the ocean Range Averaging Status Flag has been set for one or more control	•
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records. CS_OFFL_SIR_NOPM_2 _20190201T074456 _20190201T075327 _C001 Ice Range Averaging Status The loce Range Averaging Status Flag has been set for one or more	
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CS_OFFL_SIR_NOPM_Z_201902011065007_201902011092131_C001 Ocean Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more	
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CS_OFFL_SIR_NOPM_Z_201902011093410_201902011093735_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_NOPM_2_20190201T093740_20190201T100051_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2_20190201T403346_20190201T404440_C004 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_NOPM_Z_201902011103316_201902011104310_C0011 Ocean Range Averaging Status records.	
CS_OFFL_SIR_NOPM_2_20190201T104847_20190201T105921_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T1110609_20190201T111204_C001	
CS_OFFL_SIR_NOPM_2_20190201T111339_20190201T114237_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T120446_20190201T123908_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T124516_20190201T125035_C001	
CS_OFFL_SIR_NOPM_2_20190201T125234_20190201T125514_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T125713_20190201T125836_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	;
CS_OFFL_SIR_NOPM_2_20190201T132816_20190201T133038_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T133144_20190201T133221_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T134446_20190201T135318_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	:
CS_OFFL_SIR_NOPM_2_20190201T135604_20190201T141817_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T142525_20190201T142931_C001 lce Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T143130_20190201T144438_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	;
CS_OFFL_SIR_NOPM_2_20190201T144626_20190201T145235_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T145420_20190201T145901_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	•
CS_OFFL_SIR_NOPM_2_20190201T152351_20190201T155710_C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190201T155908_20190201T160416_C001	
CS_OFFI_SIR_NOPM_2_20190201T161517_20190201T164606_C001 Ocean_Range_Averaging_Status The Ocean Range Averaging Status Flag has been set for one or more	
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CS_OEFL_SIR_NORM_2_20190201T184325_20190201T185859_C001	
CS_OFFI_SIR_NOPM_2_20190201T190038_20190201T191510_C001	;
CS. OFFL. SIR. NOPM 2 20190201T191724 20190201T192224 C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more	
CS_OEFL_SIR_NORM_2_20190201T192306_20190201T192409_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more	
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CS_OFFL_SIR_NOPM_Z_201902011193007_201902011195250_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_NOPM_Z_201902011203146_201902011205507_C001 Ocean Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_NOPM_2_20190201T205805_20190201T210141_C001	

CS_OFFL_SIR_NOPM_2_20190201T210203_20190201T210515_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T210755_20190201T213557_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T220749_20190201T223408_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T223547_20190201T224054_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T224816_20190201T225901_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T230440_20190201T232149_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190201T042542_20190201T042601_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190201T060105_20190201T060706_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190201T132649_20190201T132816_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190201T192409_20190201T193007_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190201T045434_20190201T045915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190201T065433_20190201T065516_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190201T144438_20190201T144626_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190131T233911_20190201T001306_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_20190201T005729_20190201T005951_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_20190201T010151_20190201T010445_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_20190201T010644_20190201T011206_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T011755_20190201T014016_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_20190201T014302_20190201T015217_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_20190201T020444_20190201T020815_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_20190201T022417_20190201T022907_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_20190201T023054_20190201T024408_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_20190201T025717_20190201T030324_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_20190201T030333_20190201T032929_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_20190201T035027_20190201T041843_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_20190201T043334_20190201T043422_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T043647_20190201T044504_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_20190201T045915_20190201T050638_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_20190201T052214_20190201T052527_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T052747_20190201T054315_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_20190201T054529_20190201T060028_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_20190201T060706_20190201T060923_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T061001_20190201T061421_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T061604_20190201T063102_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_20190201T063242_20190201T064757_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_20190201T071050_20190201T071643_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_20190201T071805_20190201T072017_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_20190201T072642_20190201T074203_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_20190201T074456_20190201T075327_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T075543_20190201T081831_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_20190201T085607_20190201T092131_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_20190201T092650_20190201T093133_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T093410_20190201T093733_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

OO OFF! OID NORM O COMMONDATIONS AS COMMONDATIONS A COMM	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T093740_20190201T100051_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T103316_20190201T104310_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190201T104847_20190201T105921_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_20190201T1110609_20190201T111204_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T111339_20190201T114237_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_20190201T115056_20190201T115159_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_20190201T120446_20190201T123908_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_20190201T124516_20190201T125035_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T125234_20190201T125514_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_20190201T132816_20190201T133038_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_20190201T134446_20190201T135318_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_20190201T135604_20190201T141817_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_20190201T142525_20190201T142931_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T143130_20190201T144438_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_20190201T144626_20190201T145235_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_20190201T152351_20190201T155710_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T155908_20190201T160416_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190201T160436_20190201T160736_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190201T161517_20190201T164606_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T180913_20190201T182028_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T184325_20190201T185859_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T190038_20190201T191510_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190201T191724_20190201T192224_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190201T192306_20190201T192409_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T193007_20190201T195250_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190201T203146_20190201T205507_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190201T205805_20190201T210141_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Glates had had been set for one or more
CS_OFFL_SIR_NOPM_2_20190201T210203_20190201T210515_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20190201T210755_20190201T213557_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_20190201T220749_20190201T223408_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_20190201T223547_20190201T224054_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T224102_20190201T224429_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190201T224816_20190201T225901_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_20190201T230440_20190201T232149_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_20190201T042542_20190201T042601_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_20190201T060105_20190201T060706_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190201T132649_20190201T132816_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_20190201T192409_20190201T193007_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_20190201T045434_20190201T045915_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_20190201T065433_20190201T065516_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_20190201T144438_20190201T144626_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	Daonscaller Averaging Status	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.