



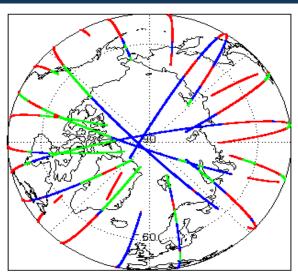
1. Overview

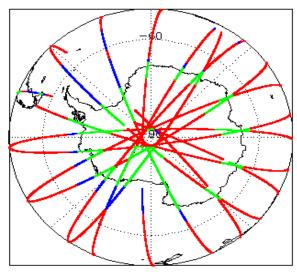
Report Production:	11-Feb-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NO L1B & L2 Science Data	

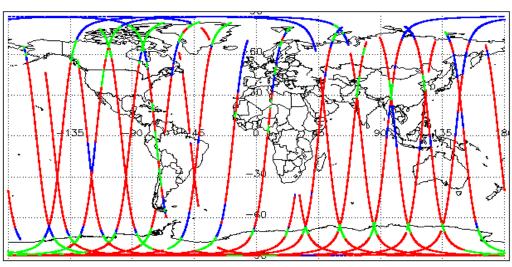
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement Confidence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

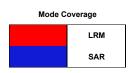
Mission / Instrument News		
07-Feb-2019	None	
08-Feb-2019	Level 1B and level 2 data gap on 08-Feb-2019 from 12:00:31 to 15:50:29 due to meteo files missing at the time of processing.	
09-Feb-2019	Nothing planned	

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:

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.

4.3 L1B Auxilary Data File Usage Check

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

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

umber 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.

Number of products with errors:

0

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:

12

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190208T051755_20190208T053335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190208T061024_20190208T061058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190208T175022_20190208T175953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190208T010551_20190208T010616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190208T060158_20190208T060308_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190208T060422_20190208T060606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190208T074116_20190208T074705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190208T190734_20190208T191202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190208T214624_20190208T214742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190208T050108_20190208T050637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190208T055522_20190208T055755_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190208T071241_20190208T072056_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:

٥

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

lumber 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.

Number of products with errors:

68

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190208T000019_20190208T000646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T000830_20190208T001405_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T001939_20190208T005323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T012636_20190208T014613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190208T015817_20190208T023310_C001 CS_OFFL_SIR_NOPM_2_20190208T015817_20190208T023310_C001 CS_OFFL_SIR_NOPM_2_20190208T025737_20190208T030158_C001 CS_OFFL_SIR_NOPM_2_20190208T030253_20190208T030158_C001 CS_OFFL_SIR_NOPM_2_20190208T030253_20190208T030203_C001 CS_OFFL_SIR_NOPM_2_20190208T030253_20190208T030233_C001 CS_OFFL_SIR_NOPM_2_20190208T032330_20190208T032435_C001 CS_OFFL_SIR_NOPM_2_20190208T0303002_20190208T033204_C001 CS_OFFL_SIR_NOPM_2_20190208T033002_20190208T033204_C001 CS_OFFL_SIR_NOPM_2_20190208T0333012_20190208T033204_C001 CS_OFFL_SIR_NOPM_2_20190208T033851_20190208T035812_C001 CS_OFFL_SIR_NOPM_2_20190208T033851_20190208T035812_C001 CS_OFFL_SIR_NOPM_2_20190208T033851_20190208T040815_C001 CS_OFFL_SIR_NOPM_2_20190208T04040106_20190208T040815_C001 CS_OFFL_SIR_NOPM_2_20190208T042806_20190208T044603_C001 CS_OFFL_SIR_NOPM_2_20190208T042806_20190208T05108_C001 CS_OFFL_SIR_NOPM_2_20190208T0440719_20190208T05108_C001 CS_OFFL_SIR_NOPM_2_20190208T0440719_20190208T05108_C001 CS_OFFL_SIR_NOPM_2_20190208T0440719_20190208T05108_C001 CS_OFFL_SIR_NOPM_2_20190208T051224_20190208T051615_C001 CS_OFFL_SIR_NOPM_2_20190208T051755_20190208T051335_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. The Ocean Range Averaging Status Flag has been set for one or m records. Th	nore nore nore nore nore
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CS_OFFL_SIR_NOPM_2_20190208T074938_20190208T075912_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	
CS_OFFL_SIR_NOPM_2_20190208T075915_20190208T082324_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	
CS_OFFL_SIR_NOPM_2_20190208T082551_20190208T082801_C001	
CS_OFFL_SIR_NOPM_2_20190208T082824_20190208T083405_C001	
CS_OFFL_SIR_NOPM_2_20190208T083628_20190208T090202_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	iore
CS_OFFL_SIR_NOPM_2_20190208T093330_20190208T094459_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	iore
CS_OFFL_SIR_NOPM_2_20190208T095035_20190208T100202_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	iore
CS_OFFL_SIR_NOPM_2_20190208T100513_20190208T100623_C001	,
CS_OFFL_SIR_NOPM_2_20190208T100800_20190208T101233_C001	
CS_OFFL_SIR_NOPM_2_20190208T101517_20190208T104324_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	iore
CS_OFFL_SIR_NOPM_2_20190208T105307_20190208T105330_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	iore
CS_OEFL_SIR_NORM_2_20190208T110748_20190208T114107_C001	ore
CS_OFFL_SIR_NOPM_2_20190208T114710_20190208T115245_C001	
CS_OFFL_SIR_NOPM_2_20190208T115410_20190208T120031_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	nore
ccall tallige Averaging Status CS OFFL SIR NOPM 2 20190208T155029 20190208T155256 C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more	
FECOTOS. The Ocean Range Averaging Status Flag has been set for one or m	nore
CS_OFFL_SIR_NOPM_2_20190208T160753_20190208T161549_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or m	nore
CS_OFFL_SIR_NOPM_2_201902081162030_201902081162222_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one or manager and the Ocean Range Averaging Status Flag has been set for one of the Ocean Range Averaging Status Flag	
CS_OFFL_SIR_NOPM_2_20190208T162225_20190208T163811_C001 Ocean Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more	
CS_OFFL_SIR_NOPM_2_20190208T163952_20190208T164511_C001	
CS_OFFL_SIR_NOPM_Z_201902061104530_201902061104731_C0011 lice Kanige Averaging Status records.	
CS_OFFL_SIR_NOPM_2_20190208T165603_20190208T170850_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	
CS_OFFL_SIR_NOPM_2_20190208T171103_20190208T172250_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	
CS_OFFL_SIR_NOPM_2_20190208T172547_20190208T172702_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	
CS_OFFL_SIR_NOPM_2_20190208T175022_20190208T175953_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	ore
CS_OFFL_SIR_NOPM_2_20190208T180228_20190208T181731_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	iore
CS_OFFL_SIR_NOPM_2_20190208T181917_20190208T182422_C001	
CS_OFFL_SIR_NOPM_2_20190208T182446_20190208T182601_C001	
CS_OFFL_SIR_NOPM_2_20190208T183254_20190208T183351_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m records.	iore
CS_OFFI_SIR_NOPM_2_20190208T184244_20190208T184437_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	iore
CS_OFFL_SIR_NOPM_2_20190208T185604_20190208T190309_C001	iore
CS_OEFL_SIR_NORM_2_20190208T193514_20190208T193701_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	nore
CS. OEFL. SIR. NORM 2, 20190208T193908, 20190208T195632, C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	nore
CS_OFFL_SIR_NOPM_2_20190208T195920_20190208T200338_C001	
CS_OFFL_SIR_NOPM_2_20190208T200940_20190208T2003327_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or m	nore
CS_OFFL_SIK_NOPW_Z_201902061200940_201902061203327_C0011	

CS_OFFL_SIR_NOPM_2_20190208T211018_20190208T213614_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T213729_20190208T214252_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T214847_20190208T220054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T220630_20190208T222149_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T224714_20190208T230856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T230910_20190208T231547_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T231721_20190208T232530_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T232757_20190209T000301_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190208T001407_20190208T001559_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190208T114335_20190208T114710_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190208T200338_20190208T200344_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190208T001724_20190208T001939_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190208T033733_20190208T033851_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_20190208T000019_20190208T000646_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_20190208T000830_20190208T001405_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T001939_20190208T005323_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_20190208T012636_20190208T014613_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_20190208T014751_20190208T015301_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T015817_20190208T023310_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_20190208T025737_20190208T030158_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_20190208T030253_20190208T032030_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_20190208T033851_20190208T035812_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_20190208T040106_20190208T040815_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_20190208T042806_20190208T044603_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_20190208T044719_20190208T050108_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_20190208T051224_20190208T051615_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T051755_20190208T053335_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_20190208T053536_20190208T054459_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_20190208T061251_20190208T062419_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_20190208T064008_20190208T064401_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_20190208T064721_20190208T065517_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T065705_20190208T071241_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_20190208T074938_20190208T075912_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_20190208T075915_20190208T082324_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_20190208T082551_20190208T082801_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T083628_20190208T090202_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_20190208T095035_20190208T100202_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_20190208T100513_20190208T100623_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T100800_20190208T101233_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T101517_20190208T104324_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_20190208T105307_20190208T105330_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_20190208T110748_20190208T114107_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_20190208T114710_20190208T115245_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

	CMILL Avenue in a Chatter Occasi	The CM/II and Ocean Avenue in a Status Flams have been at for any
CS_OFFL_SIR_NOPM_2_20190208T115410_20190208T120031_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_20190208T155029_20190208T155256_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T160753_20190208T161549_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_20190208T162225_20190208T163811_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_20190208T163952_20190208T164511_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T164530_20190208T164731_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T165603_20190208T170850_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_20190208T171103_20190208T172250_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_20190208T172547_20190208T172702_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_20190208T175022_20190208T175953_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_20190208T180228_20190208T181731_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_20190208T181917_20190208T182422_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T182446_20190208T182601_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T183254_20190208T183351_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_20190208T184244_20190208T184437_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_20190208T185017_20190208T185441_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_20190208T185604_20190208T190309_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_20190208T193514_20190208T193701_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_20190208T193908_20190208T195632_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_20190208T195920_20190208T200338_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T200940_20190208T203327_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_20190208T211018_20190208T213614_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_20190208T213729_20190208T214252_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T214847_20190208T220054_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_20190208T220630_20190208T222149_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_20190208T224714_20190208T230856_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_20190208T230910_20190208T231547_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_20190208T231721_20190208T232530_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190208T232757_20190209T000301_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_20190208T001407_20190208T001559_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190208T114335_20190208T114710_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190208T200338_20190208T200344_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190208T001724_20190208T001939_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_20190208T033733_20190208T033851_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: