

1. Overview

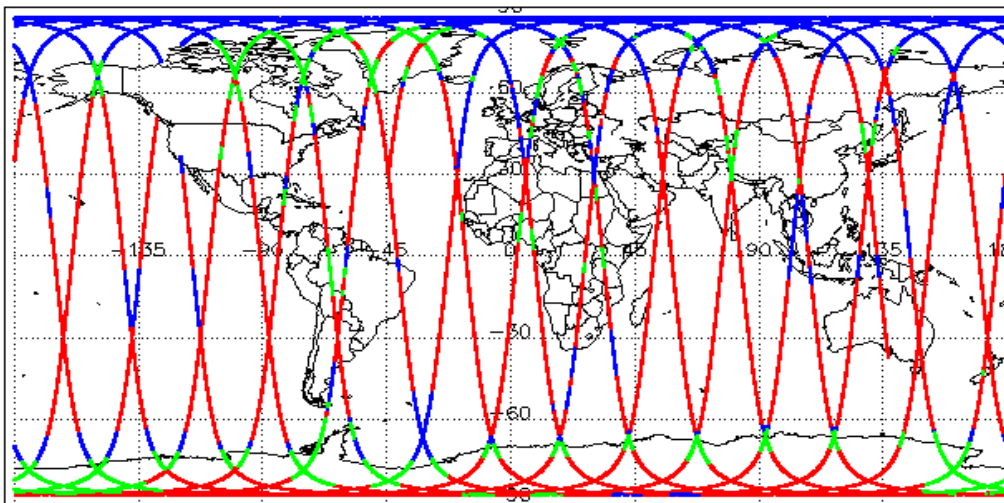
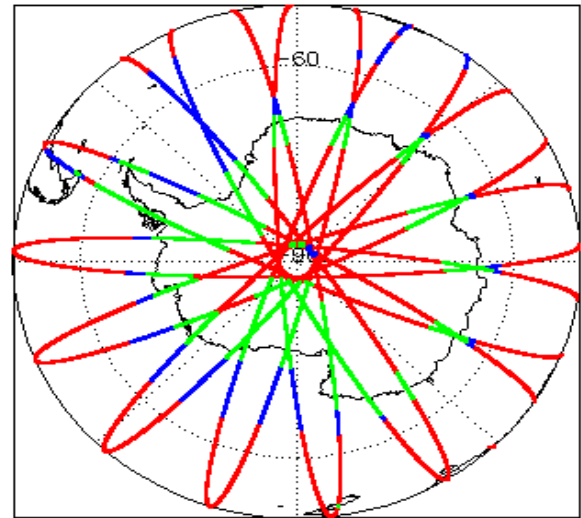
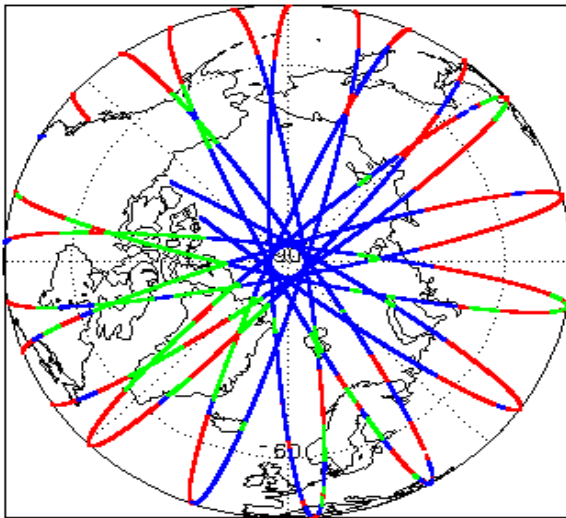
Report Production:	25-Jan-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

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	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7
Ocean Retracking Quality Check	See Section 5.8

Mission / Instrument News

19-Jan-2018	None
20-Jan-2018	None
21-Jan-2018	Nothing planned

2. Global Coverage



Mode Coverage	
	LRM
	SAR

3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors: 0

4.2 L1B Product Header Analysis

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

Number of products with errors: 0

4.3 L1B Auxiliary Data File Usage Check

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

Number of products with errors: 0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors: 0

4.5 L1B Measurement Confidence Data Check

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

Number of products with errors: 59

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180120T010333_20180120T011037_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPR1B_20180120T011456_20180120T011518_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T014637_20180120T014817_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T015415_20180120T015526_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T022126_20180120T022344_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T022507_20180120T022509_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T031038_20180120T031121_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T035109_20180120T035517_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T052012_20180120T052049_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T055847_20180120T060420_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T062852_20180120T062914_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T070248_20180120T070334_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T070456_20180120T070525_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T070722_20180120T070825_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T071819_20180120T071854_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T075458_20180120T075736_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T083928_20180120T083945_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T084352_20180120T084534_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T084901_20180120T085939_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T090858_20180120T091057_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T093333_20180120T093453_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T094622_20180120T094711_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T102841_20180120T103305_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T103305_20180120T103621_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T114321_20180120T114429_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T120750_20180120T121312_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T121344_20180120T121505_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T121853_20180120T121901_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T121905_20180120T121917_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T121921_20180120T121938_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T122000_20180120T122025_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T123419_20180120T123623_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T125847_20180120T125853_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T130702_20180120T130736_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T134647_20180120T134942_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T134942_20180120T135347_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T140756_20180120T141543_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T143049_20180120T143110_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T163532_20180120T164102_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T165055_20180120T165233_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T171107_20180120T171339_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T174951_20180120T175012_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T181445_20180120T181624_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T181624_20180120T182004_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T183920_20180120T183937_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T184858_20180120T185052_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T190104_20180120T190324_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T192030_20180120T192318_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T192931_20180120T193009_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T202919_20180120T202943_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T210848_20180120T210941_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T211915_20180120T212159_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T215449_20180120T215735_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T221151_20180120T222036_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_NOPR1B_20180120T230126_20180120T230142_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T231919_20180120T232400_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T233257_20180120T233304_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T233505_20180120T233514_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_NOPR1B_20180120T233517_20180120T233532_C001	Attitude correction missing	The attitude has not been corrected

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors: 16

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180120T070635_20180120T070722_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180120T072023_20180120T075458_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180120T172326_20180120T174951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180120T025836_20180120T030019_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180120T102418_20180120T102621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180120T120119_20180120T120539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180120T120641_20180120T120750_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180120T130534_20180120T130701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180120T134121_20180120T134647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T015415_20180120T015526_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T035109_20180120T035517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T052534_20180120T053557_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T103756_20180120T104135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T134035_20180120T134121_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T171107_20180120T171339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180120T221151_20180120T222036_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors: 0

5.2 L2 Product Header Analysis

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

Number of products with errors: 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.

Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors: 0

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180120T010333_20180120T011037_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

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: 82

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180119T235216_20180120T000811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T001014_20180120T002039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T003742_20180120T003946_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T004230_20180120T004444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T004625_20180120T005852_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20180120T180406_20180120T181444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T182004_20180120T183802_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T185052_20180120T185223_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T192318_20180120T192441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T194251_20180120T200458_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T200744_20180120T201638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T202943_20180120T203219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T204858_20180120T210848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T211055_20180120T211555_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T212159_20180120T215449_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T222036_20180120T224332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T225307_20180120T225459_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T230142_20180120T231919_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T232400_20180120T233235_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T234703_20180120T234949_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T235136_20180121T000802_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T112227_20180120T112413_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T122100_20180120T122303_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T125209_20180120T125352_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T125918_20180120T125925_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T134121_20180120T134647_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T143110_20180120T143317_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T143953_20180120T144325_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T161102_20180120T161330_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180120T020946_20180120T021113_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180120T163532_20180120T164102_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: 80

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180119T235216_20180120T000811_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_20180120T001014_20180120T002039_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_20180120T003742_20180120T003946_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T004230_20180120T004444_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_20180120T004625_20180120T005852_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_20180120T012523_20180120T012951_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T013158_20180120T014637_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_20180120T014817_20180120T015059_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_20180120T023341_20180120T025747_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_20180120T030019_20180120T030858_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T031121_20180120T033622_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_20180120T040816_20180120T043611_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_20180120T043947_20180120T044117_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T044233_20180120T044653_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T045000_20180120T051637_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_20180120T054331_20180120T055847_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_20180120T060420_20180120T061517_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_20180120T234703_20180120T234949_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180120T235136_20180121T000802_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_20180120T112227_20180120T112413_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_20180120T122100_20180120T122303_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_20180120T125209_20180120T125352_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T125918_20180120T125925_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T134121_20180120T134647_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_20180120T143110_20180120T143317_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180120T143953_20180120T144325_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_20180120T161102_20180120T161330_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180120T020946_20180120T021113_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_20180120T163532_20180120T164102_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: 57