







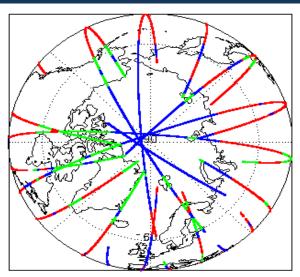
1. Overview

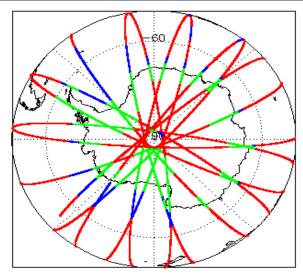
Report Production:	18-Jan-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP)

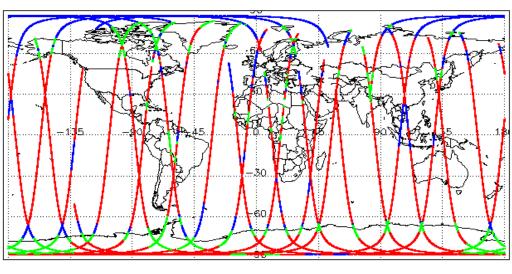
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 5.2
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement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

Mis	Mission / Instrument News		
1	6-Jan-2019	None	
1	7-Jan-2019	None	
1	8-Jan-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.

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.

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.

Number of products with errors:

Λ

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:

13

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190117T182838_20190117T184412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190117T203636_20190117T210346_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190117T045429_20190117T045510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190117T062847_20190117T063005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190117T130039_20190117T130135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190117T193330_20190117T193627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190117T193701_20190117T193911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190117T235221_20190117T235400_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190117T052634_20190117T053335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190117T142844_20190117T143031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190117T185927_20190117T190007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190117T192859_20190117T193003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190117T193226_20190117T193330_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).

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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190117T000431_20190117T002420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T002657_20190117T003303_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T003507_20190117T004309_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T004654_20190117T012025_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_2010117103352_20100117103370_001 CS_OFFL_SIR_NOPM_2_2010011710332_20100117103050_001 CS_OFFL_SIR_NOPM_2_2010011710344_201001171031050_001 CS_OFFL_SIR_NOPM_2_2010011710345_20100117103050_001 CS_OFFL_SIR_NOPM_2_2010011710345_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_001 CS_OFFL_SIR_NOPM_2_20100117103050_00101700300_001 CS_OFFL_SIR_NOPM_2_20100117103050_001017103000_001 CS_OFFL_SIR_NOPM_2_20100117103000_0010017100300_001 CS_OFFL_SIR_NOPM_2_20100117103000_0010017100300_001 CS_OFFL_SIR_NOPM_2_20100117103000_0010017100300_001 CS_OFFL_SIR_NOPM_2_20100117103000_0010017100300_001 CS_OFFL_SIR_NOPM_2_20100117103000_0010017100300_00100
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SOFE, SIR, NOPM_2 20190117T03395_20190117T03503_C001 Ocean Range Averaging Status CS_OFE_SIR, NOPM_2 20190117T03395_20190117T03503_C001 Ocean Range Averaging Status CS_OFE_SIR, NOPM_2 20190117T03395_20190117T035015_C001 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 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. 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. 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
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CS_OFFL_SIR_NOPM_2_20190117T05430_20190117T0691342_CO01 CS_OFFL_SIR_NOPM_2_20190117T0691342_CO01 CS_OFFL_SIR_NOPM_2_20190117T069232_20190117T069234_CO01 CS_OFFL_SIR_NOPM_2_20190117T069232_20190117T069232_20190117T069233_CO01 CS_OFFL_SIR_NOPM_2_20190117T069232_20190117T069233_20190117T069233_CO01 CS_OFFL_SIR_NOPM_2_20190117T0692332_20190117T069233_CO01 CS_OFFL_SIR_NOPM_2_20190117T069233_20190117T069233_CO01 CS_OFFL_SIR_NOPM_2_20190117T069233_20190117T069233_CO01 CS_OFFL_SIR_NOPM_2_20190117T069233_20190117T0704036_CO01 CS_OFFL_SIR_NOPM_2_20190117T0704706_CO010117T0704036_CO010
CS_OFFL_SIR_NOPM_2_20190117T082420_20190117T08358_C001 CS_OFFL_SIR_NOPM_2_20190117T083592_20190117T083731_C001 CS_OFFL_SIR_NOPM_2_20190117T083592_20190117T083731_C001 CS_OFFL_SIR_NOPM_2_20190117T083742_20190117T083731_C001 CS_OFFL_SIR_NOPM_2_20190117T083742_20190117T083731_C001 CS_OFFL_SIR_NOPM_2_20190117T083742_20190117T083731_C001 CS_OFFL_SIR_NOPM_2_20190117T083742_20190117T083731_C001 CS_OFFL_SIR_NOPM_2_20190117T083742_20190117T078831_C001 CS_OFFL_SIR_NOPM_2_20190117T07442_20190117T072210_C001 CS_OFFL_SIR_NOPM_2_20190117T07442_20190117T072210_C001 CS_OFFL_SIR_NOPM_2_20190117T07449_20190117T073856_C001 CS_OFFL_SIR_NOPM_2_20190117T07449_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T07449_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T08403_20190117T082434_C001 CS_OFFL_SIR_NOPM_2_20190117T08403_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T08403_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T08403_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T08403_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T08403_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T085000_20190117T090123_C001 CS_OFFL_SIR_NOPM_2_20190117T08003_20190117T090123_C001 CS_OFFL_SIR_NOPM_2_20190117T108003_20190117T1080300_C001 CS_OFFL_SIR_NOPM_2_20190117T108003_20190117T1080300_C001 CS_OFFL_SIR_NOPM_2_20190117T1080300_20190117T1080300_C001 CS_OFFL_SIR_NOPM_2_20190117T1080300_20190117T1080300_C001 CS_OFFL_SIR_NOPM_2_20190117T1080300_20190117T1080300_C001 CS_OFFL_SIR_NOPM_2_20190117T1080300_20190117T1080300_C001 CS_OFFL_SIR_NOPM_2_20190117T1080000_20117T1108010_C001 CS_OFFL_SIR_NOPM_2_20190117T1080000_20117T1108010_C001 CS_OFFL_SIR_NOPM_2_20190117T108101_C001 CS_OFFL_SIR_NOPM_2_20190117T108101_C001 CS_OFFL_SIR_NOPM_2_20190117T113610_20190117T113610_C001 CS_OFFL_SIR_NOPM_2_20190117T113610_20190117T113610_C001 CS_OFFL_SIR_NOPM_2_20190117T113610_20190117T113610_C001 CS_OFFL_SIR_NOPM_2_20190117T113610_20190117T113610_C001 CS_OFF
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CS_OFFL_SIR_NOPM_2_20190117T1063052_20190117T063731_C001 CS_OFFL_SIR_NOPM_2_20190117T063742_20190117T063731_C001 CS_OFFL_SIR_NOPM_2_20190117T063742_20190117T070831_C001 CS_OFFL_SIR_NOPM_2_20190117T065729_20190117T070831_C001 CS_OFFL_SIR_NOPM_2_20190117T07442_20190117T07210_C001 CS_OFFL_SIR_NOPM_2_20190117T07442_20190117T074586_C001 CS_OFFL_SIR_NOPM_2_20190117T074036_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T074036_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T082434_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T08200_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T08500_C001 CS_OFFL_SIR_NOPM_2_20190117T085232_20190117T092037_C001 CS_OFFL_SIR_NOPM_2_20190117T08408_20190117T09200_C001 CS_OFFL_SIR_NOPM_2_20190117T085032_20190117T09200_C001 CS_OFFL_SIR_NOPM_2_20190117T085032_20190117T09200_C001 CS_OFFL_SIR_NOPM_2_20190117T085032_20190117T092012_C001 CS_OFFL_SIR_NOPM_2_20190117T085032_20190117T092012_C001 CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T092012_C001 CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T0923001 CS_OFFL_SIR_NOPM_2_20190117T010503_20190117T0923001 CS_OFFL_SIR_NOPM_2_20190117T105030_20190117T0923001 CS_OFFL_SIR_NOPM_2_20190117T010503_20190117T0923001 CS_OFFL_SIR_NOPM_2_20190117T105030_20190117T102833_C001 CS_OFFL_SIR_NOPM_2_20190117T105030_20190117T102833_C001 CS_OFFL_SIR_NOPM_2_20190117T103448_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T1104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T110500_C001 CS_OFFL_SIR_NOPM_
CS_OFFL_SIR_NOPM_2_20190117T063725_20190117T063731_C001 CS_OFFL_SIR_NOPM_2_20190117T063742_20190117T065111_C001 CS_OFFL_SIR_NOPM_2_20190117T065729_20190117T076831_C001 CS_OFFL_SIR_NOPM_2_20190117T071744_20190117T072210_C001 CS_OFFL_SIR_NOPM_2_20190117T071744_20190117T072210_C001 CS_OFFL_SIR_NOPM_2_20190117T071744_20190117T072210_C001 CS_OFFL_SIR_NOPM_2_20190117T074036_20190117T07240_C001 CS_OFFL_SIR_NOPM_2_20190117T074036_20190117T073856_C001 CS_OFFL_SIR_NOPM_2_20190117T074036_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T081728_20190117T082434_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T085232_20190117T090123_C001 CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T092736_C001 CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T092736_C001 CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T082736_C001 CS_OFFL_SIR_NOPM_2_20190117T1090337_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T1090337_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T1090337_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T103448_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T103448_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T103448_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T1104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T1104207_20190117T1103912_C001 CS_OFFL_SIR_NOPM_2_20190117T104207_20190
CS_OFFL_SIR_NOPM_2_20190117T065729_20190117T070831_C001 CS_OFFL_SIR_NOPM_2_20190117T071744_20190117T07210_C001 Loc 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_20190117T07409_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T074036_20190117T074318_C001 CS_OFFL_SIR_NOPM_2_20190117T081728_20190117T082434_C001 CS_OFFL_SIR_NOPM_2_20190117T081728_20190117T082434_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T082434_C001 CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T085000_C001 CS_OFFL_SIR_NOPM_2_20190117T082532_20190117T08000_C001 CS_OFFL_SIR_NOPM_2_20190117T085232_20190117T090123_C001 CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T092736_C001 CS_OFFL_SIR_NOPM_2_20190117T1090337_20190117T102833_C001 CS_OFFL_SIR_NOPM_2_20190117T1090337_20190117T102833_C001 CS_OFFL_SIR_NOPM_2_20190117T10303_20190117T102833_C001 CS_OFFL_SIR_NOPM_2_20190117T10303_20190117T102833_C001 CS_OFFL_SIR_NOPM_2_20190117T10303_2
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CS_OFFL_SIR_NORM_2_20190117T140020_20190117T140307_C001
CS_OFFL_SIR_NOPM_2_20190117T140508_20190117T140907_C001
CS_OFFL_SIR_NOPM_2_20190117T140935_20190117T141354_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2_20190117T140935_20190117T141354_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_NOPM_2_20190117T145214_20190117T150115_C001
CS_OFFL_SIR_NOPM_2_20190117T150402_20190117T152555_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2_20190117T150402_20190117T152555_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_NOPM_2_20190117T155307_20190117T160138_C001
CS_OFFL_SIR_NOPM_2_20190117T160235_20190117T160640_C001
CS_OFFL_SIR_NOPM_2_20190117T181502_20190117T182635_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_NOPWI_Z_201901171162636_201901171164412_C001

CS_OFFL_SIR_NOPM_2_20190117T200801_20190117T202304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T202531_20190117T203017_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T203057_20190117T203207_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T203636_20190117T210346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T231229_20190117T234206_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T234349_20190117T234845_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T235618_20190118T000659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190117T203208_20190117T203628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190117T003303_20190117T003342_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190117T063732_20190117T063742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190117T085000_20190117T085056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190117T115106_20190117T115640_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190117T200106_20190117T200801_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.

umber of products with errors:

Product Test Failed SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T000431_20190117T002420_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T002657 20190117T003303 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status CS_OFFL_SIR_NOPM_2_20190117T003507_20190117T004309_C001 records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T004654 20190117T012025 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T013352 20190117T013447 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T015522_20190117T020319_C001 Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_NOPM_2_20190117T020324_20190117T021233_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190117T021441 20190117T021956 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T022535_20190117T024810_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR NOPM 2 20190117T025056 20190117T030042 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T031346 20190117T031633 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T033105_20190117T033703_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T033851 20190117T035015 C001 Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_NOPM_2_20190117T040529_20190117T043819_C001 Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_NOPM_2_20190117T045510_20190117T050201_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T050217 20190117T052634 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_NOPM_2_20190117T053610_20190117T053804_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T054430_20190117T060127_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T060129 20190117T061342 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20190117T063005 20190117T063358 C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR NOPM 2 20190117T063525 20190117T063731 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T063742 20190117T065111 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T065729_20190117T070831_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_NOPM_2_20190117T071448_20190117T071721_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_NOPM_2_20190117T071744_20190117T072210_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T072409_20190117T073856_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20190117T074036 20190117T074318 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_NOPM_2_20190117T081728_20190117T082434_C001 Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_NOPM_2_20190117T082601_20190117T085000_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_NOPM_2_20190117T085232_20190117T090123_C001 Ice Backscatter Averaging Status

CS_OFFL_SIR_NOPM_2_20190117T090337_20190117T092736_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	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_20190117T100503_20190117T102833_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190117T103448_20190117T103912_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_20190117T104207_20190117T110810_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_20190117T113617_20190117T115105_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190117T115640_20190117T120732_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_20190117T121402_20190117T121951_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T122130_20190117T123912_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_20190117T125902_20190117T125947_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_20190117T131234_20190117T134719_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_20190117T135309_20190117T135822_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T140020_20190117T140307_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_20190117T140508_20190117T140907_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_20190117T141356_20190117T141926_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_20190117T143541_20190117T143812_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190117T145214_20190117T150115_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_20190117T150402_20190117T152555_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 20190117T153138 20190117T153308 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_20190117T153316_20190117T153725_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190117T153932_20190117T155233_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_20190117T155307_20190117T160138_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_20190117T160235_20190117T160640_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_20190117T181502_20190117T182635_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_20190117T182838_20190117T184412_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190117T184607_20190117T185104_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T190007_20190117T191105_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_20190117T191707_20190117T192830_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_20190117T200801_20190117T202304_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_20190117T202531_20190117T203017_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T203057_20190117T203207_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190117T203636_20190117T210346_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_20190117T231229_20190117T234206_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_20190117T235618_20190118T000659_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_20190117T203208_20190117T203628_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_20190117T003303_20190117T003342_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_20190117T063732_20190117T063742_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_20190117T085000_20190117T085056_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPR_2_20190117T115106_20190117T115640_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_NOPR_2_20190117T200106_20190117T200801_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.

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.