







## 1. Overview

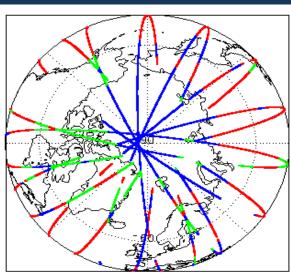
Report Production:	20-Feb-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

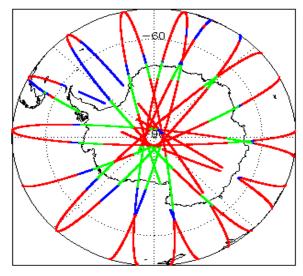
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement Confidence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

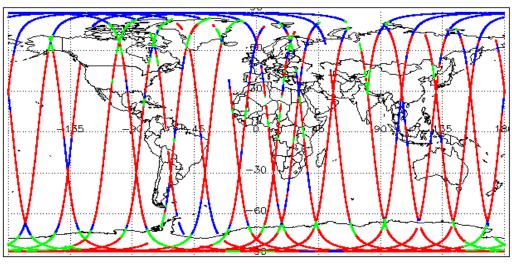
Wission / Instru	
18-Feb-2019	None

19-Feb-2019 None 20-Feb-2019 Nothing planned

# 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

## 4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

C

#### 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

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

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.

lumber 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190219T052720_20190219T053303_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190219T164523_20190219T165643_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

### 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: 18

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190219T164523_20190219T165643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T032008_20190219T032222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T050219_20190219T050505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T053841_20190219T054126_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T063821_20190219T064035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T113057_20190219T113138_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T144648_20190219T144857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T180346_20190219T180627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190219T190219_20190219T190553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T013035_20190219T013143_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T053303_20190219T053705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T060906_20190219T061045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T063216_20190219T063339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T094804_20190219T095820_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T131126_20190219T132220_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T150012_20190219T150213_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T180259_20190219T180346_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190219T195321_20190219T195511_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:

#### 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:

2	

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190219T052720_20190219T053303_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20190219T164523_20190219T165643_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:

77

Test Failed Description  CS_OFFL_SIR_NOPM_2_20190219T000404_20190219T000449_C001  CS_OFFL_SIR_NOPM_2_20190219T0002549_20190219T0040322_C001  CS_OFFL_SIR_NOPM_2_20190219T000451_20190219T000505_C001  CS_OFFL_SIR_NOPM_2_20190219T000451_20190219T000505_C001  CS_OFFL_SIR_NOPM_2_20190219T000527_20190219T011818_C001  CS_OFFL_SIR_NOPM_2_20190219T011203_20190219T011818_C001  CS_OFFL_SIR_NOPM_2_20190219T011203_20190219T011818_C001  CS_OFFL_SIR_NOPM_2_20190219T011203_20190219T0114239_C001  CS_OFFL_SIR_NOPM_2_20190219T014247_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T0104521_C001  CS_OFFL_SIR_NOPM_2_20190219T020103_20190219T02000_C001  CS_OFFL_SIR_NOPM_2_20190219T020057_20190219T02000_C001  CS_OFFL_SIR_NOPM_2_20190219T020057_20190219T02000_C001  CS_OFFL_SIR_NOPM_2_20190219T020057_20190219T02000_C001  CS_OFFL_SIR_NOPM_2_20190219T020057_20190219T02000_C001  CS_OFFL_SIR_NOPM_2_20190219T020057_20190219T02000_C001  CS_OFFL_SIR_NOPM_2_20190219T0203514_20190219T03000_C001  CS_OFFL_SIR_NOPM_2_20190219T0303445_20190219T0303640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T0305640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040418_20010  CS_OFFL_SIR_NOPM_2_20190219T040418_20010  CS_OFFL_SIR_NOPM_2_20190219T040418_20010  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040400_C001  CS_OFFL_SIR_NOPM_2_20190219T040412_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T040412_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T040312_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T040312_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T0404142_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T0404142_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T0404142_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T0404142_20190219T040413_C001  CS_OFFL_SIR_NOPM_2_20190219T0404142_20190219T040413_C001  CS_OFF
CS_OFFL_SIR_NOPM_2_20190219T004549_20190219T004322_C001  CS_OFFL_SIR_NOPM_2_20190219T00451_20190219T01818_C001  CS_OFFL_SIR_NOPM_2_20190219T01203_20190219T011818_C001  CS_OFFL_SIR_NOPM_2_20190219T01203_20190219T013035_C001  CS_OFFL_SIR_NOPM_2_20190219T01403_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T01409_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T01409_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T01403_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T00203_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T00203_20190219T020709_C001  CS_OFFL_SIR_NOPM_2_20190219T020256_C001  CS_OFFL_SIR_NOPM_2_20190219T02266_C001  CS_OFFL_SIR_NOPM_2_20190219T02633_20190219T02226_C001  CS_OFFL_SIR_NOPM_2_20190219T02633_20190219T02226_C001  CS_OFFL_SIR_NOPM_2_20190219T02633_20190219T03708_C001  CS_OFFL_SIR_NOPM_2_20190219T02645_20190219T03708_C001  CS_OFFL_SIR_NOPM_2_20190219T02663_20190219T03708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T03640_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T036640_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T036640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T041115_20190219T0403040_C001  CS_OFFL_SIR_NOPM_2_20190219T041115_20190219T0403040_C001  CS_OFFL_SIR_NOPM_2_20190219T043277_20190219T043325_C001  CCS_OFFL_SIR_NOPM_2_20190219T043277_20190219T0403040_C001  CS_OFFL_SIR_NOPM_2_20190219T043277_20190219T0403040_C001  CS_OFFL_SIR_NOPM_2_20190219T043277_20190219T0403341_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050568_C001  CCS_OFFL_SIR_NOPM_2_20190219T050505
CS_OFFL_SIR_NOPM_2_20190219T00451_20190219T01818_C001  CS_OFFL_SIR_NOPM_2_20190219T012103_20190219T013035_C001  CS_OFFL_SIR_NOPM_2_20190219T014209_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T014209_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014251_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014251_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T02003_20190219T020709_C001  CS_OFFL_SIR_NOPM_2_20190219T0200557_20190219T020709_C001  CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T020206_C001  CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T020206_C001  CS_OFFL_SIR_NOPM_2_20190219T02033_20190219T02090_C001  CS_OFFL_SIR_NOPM_2_20190219T02033_20190219T02090_C001  CS_OFFL_SIR_NOPM_2_20190219T02033_20190219T02090_C001  CS_OFFL_SIR_NOPM_2_20190219T0203514_20190219T02090_C001  CS_OFFL_SIR_NOPM_2_20190219T0203514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T0203514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T03445_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041105_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041312_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043325_C001  CC_OCAR_Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or incoords.  The Loe Range Averaging Status Flag has been set for one or incoords.  The Loe Range Averaging Status Flag has been set for one or incoords.  The Loe Range Averaging Status Flag has been set for one or incoords.  The Coean Range Averaging Status Flag has been set for one or incoords.  The Loe Range Averaging Status Flag has been set for one or incoords.  The Loe Range Averaging Status Flag has been set for one or incoords.  The Loe Range Averaging Status Flag has been set for o
CS_OFFL_SIR_NOPM_2_20190219T012103_20190219T013035_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014521_C001  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_20190219T020103_20190219T020709_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ocean Range Averaging Status Flag has been set for one or incords.  The Ice Range Averaging Status Flag has been set for one or incords.  CS_OFFL_SIR_NOPM_2_20190219T0410412_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T0410422_1010219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  Ocean Range Averaging
CS_OFFL_SIR_NOPM_2_20190219T014209_20190219T014239_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T014347_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T0203_20190219T02090_C001  CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T020206_C001  CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T022206_C001  CS_OFFL_SIR_NOPM_2_20190219T02263_20190219T022206_C001  CS_OFFL_SIR_NOPM_2_20190219T02253_20190219T022906_C001  CS_OFFL_SIR_NOPM_2_20190219T02253_20190219T022906_C001  CS_OFFL_SIR_NOPM_2_20190219T022514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T036640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041042_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T044325_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T044325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050668_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_2019T050668_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_2019T050688_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190519T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050688_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050518_C001  CS_OFFL_
CS_OFFL_SIR_NOPM_2_20190219T014209_20190219T014521_C001  CS_OFFL_SIR_NOPM_2_20190219T020103_20190219T020709_C001  CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T022226_C001  CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T022266_C001  CS_OFFL_SIR_NOPM_2_20190219T022653_20190219T022906_C001  CS_OFFL_SIR_NOPM_2_20190219T022633_20190219T022906_C001  CS_OFFL_SIR_NOPM_2_20190219T022514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T0400400_C001  CS_OFFL_SIR_NOPM_2_20190219T0410422_0190219T0404040_C001  CS_OFFL_SIR_NOPM_2_20190219T041242_20190219T0404040_C001  CS_OFFL_SIR_NOPM_2_20190219T041242_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T0403217_20190219T040808_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_201902
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CS_OFFL_SIR_NOPM_2_20190219T020857_20190219T02226_C001  CS_OFFL_SIR_NOPM_2_20190219T022633_20190219T022906_C001  CS_OFFL_SIR_NOPM_2_20190219T022633_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T023514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T035640_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T035640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040613_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T044325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T05668_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T05668_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T050743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05075743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_2
CS_OFFL_SIR_NOPM_2_20190219T022633_20190219T022906_C001  Loe Range Averaging Status  CS_OFFL_SIR_NOPM_2_20190219T023514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T035640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T04325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T0501581_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T0503743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_201
CS_OFFL_SIR_NOPM_2_20190219T032514_20190219T030708_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T035640_C001  CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T035640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T044325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T05658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T0507473_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T05074750_20190219T0553841_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T0553841_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T0553841_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T0553841_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T0553841_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T
CS_OFFL_SIR_NOPM_2_20190219T032445_20190219T035640_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041042_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T044325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T0537575_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053
CS_OFFL_SIR_NOPM_2_20190219T040618_20190219T040813_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T04325_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T050558_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001
CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001  CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T044325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001
CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T04325_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001
CS_OFFL_SIR_NOPM_2_20190219T043217_20190219T043040_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001
CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T055218_C001
CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T05098_C001  CS_OFFL_SIR_NOPM_2_20190219T050931_20190219T052117_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053750_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T054750_20190219T055218_C001  ICR_Range_Averaging_Status  The Ocean Range Averaging Status Flag has been set for one or necords.  The Ocean Range Averaging Status Flag has been set for one or necords.  The Ocean Range Averaging Status Flag has been set for one or more than the control of the co
CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T053841_C001  CS_OFFL_SIR_NOPM_2_20190219T053743_20190219T055218_C001  ICR_Range Averaging Status  The Ocean Range Averaging Status  The ICR_Range Averaging Status Flag has been set for one or more conditional conditions and the condition of the condition o
CS_OFFL_SIR_NOPM_2_201902191033745_201902191033641_C001  CS_OFFL_SIR_NOPM_2_201902191033641_C001  ICS_Range_Averaging_Status  ICS_COFFL_SIR_NOPM_2_201902191033641_C001  ICS_Range_Averaging_Status  ICS_COFFL_SIR_NOPM_2_201902191033641_C001  ICS_Range_Averaging_Status  ICS_COFFL_SIR_NOPM_2_201902191033641_C001
records.
CS_OFFL_SIR_NOPM_2_20190219T055411_20190219T060905_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T061045_20190219T061328_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T064733_20190219T065323_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T065606_20190219T065850_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T065852_20190219T072021_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T072244_20190219T073126_C001
CS_OFFL_SIR_NOPM_2_20190219T073333_20190219T075843_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T083042_20190219T085920_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T090459_20190219T090920_C001
CS_OFFL_SIR_NOPM_2_20190219T091212_20190219T093701_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or precords.
CS_OFFL_SIR_NOPM_2_20190219T100603_20190219T102112_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T102645_20190219T103825_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T104412_20190219T104959_C001
CS_OFFL_SIR_NOPM_2_20190219T105120_20190219T105743_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T110120_20190219T110826_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T112904_20190219T112949_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T114247_20190219T121747_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T122317_20190219T122830_C001
CS_OFFL_SIR_NOPM_2_20190219T123009_20190219T123318_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T123417_20190219T124937_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
T 0 D 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CS_OFFL_SIR_NOPM_2_20190219T132221_20190219T133122_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T133408_20190219T135626_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or records.
CS_OFFL_SIR_NOPM_2_20190219T133408_20190219T135626_C001  CS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  CS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  Ice Range Averaging Status  The loce Range Averaging Status Flag has been set for one or mor records.  The loce Range Averaging Status Flag has been set for one or mor records.
CS_OFFL_SIR_NOPM_2_20190219T133408_20190219T135626_C001  CS_OFFL_SIR_NOPM_2_20190219T133408_20190219T135626_C001  CS_OFFL_SIR_NOPM_2_20190219T133408_20190219T135626_C001  CS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  ICS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  ICS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  ICS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  ICS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  ICS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001  ICS_OFFL_SIR_NOPM_2_20190219T140324_20190219T140735_C001

CS_OFFL_SIR_NOPM_2_20190219T150341_20190219T151858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T151901_20190219T153524_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T153651_20190219T154216_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T154235_20190219T154456_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T155322_20190219T160549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T160650_20190219T162345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T164523_20190219T165643_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T165847_20190219T171427_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T171617_20190219T172113_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T173006_20190219T174057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T174716_20190219T175859_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T183807_20190219T185323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T185547_20190219T190027_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T190030_20190219T190043_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T190629_20190219T193347_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T213921_20190219T221235_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T221359_20190219T221854_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T221901_20190219T222230_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T222537_20190219T223712_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T224245_20190219T230032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T231327_20190219T231455_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T234543_20190219T234706_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T234906_20190219T235214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T235357_20190219T235924_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190219T031402_20190219T031417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190219T053841_20190219T054126_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190219T144648_20190219T144857_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190219T102112_20190219T102645_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190219T130657_20190219T130801_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190219T140317_20190219T140324_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190219T172930_20190219T173006_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190219T235215_20190219T235234_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: 66

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190219T002549_20190219T004322_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_20190219T004451_20190219T005005_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T005527_20190219T011818_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_20190219T012103_20190219T013035_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_20190219T014209_20190219T014239_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_20190219T020857_20190219T022226_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_20190219T023514_20190219T030708_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_20190219T032445_20190219T035640_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_20190219T040618_20190219T040813_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T041015_20190219T041318_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T041442_20190219T043040_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_20190219T043217_20190219T044325_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190219T050505_20190219T050658_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 20190219T050931 20190219T052117 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 20190219T054750 20190219T055218 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 20190219T055411 20190219T060905 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190219T061045_20190219T061328_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_20190219T065852_20190219T072021_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190219T072244_20190219T073126_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_20190219T073333_20190219T075843_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_20190219T083042_20190219T085920_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190219T090459_20190219T090920_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_20190219T091212_20190219T093701_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_20190219T100603_20190219T102112_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_NOPM_2_20190219T102645_20190219T103825_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T104412_20190219T104959_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T105120_20190219T105743_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_20190219T110120_20190219T110826_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_20190219T114247_20190219T121747_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_20190219T122317_20190219T122830_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T123417_20190219T124937_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_20190219T132221_20190219T133122_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_20190219T133408_20190219T135626_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_20190219T140324_20190219T140735_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T140944_20190219T143147_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_20190219T143227_20190219T143700_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_20190219T150341_20190219T151858_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_20190219T151901_20190219T153524_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_20190219T153651_20190219T154216_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T154235_20190219T154456_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190219T155322_20190219T160549_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_20190219T160650_20190219T162345_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR NOPM 2 20190219T164523 20190219T165643 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 20190219T165847 20190219T171427 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_20190219T171617_20190219T172113_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_20190219T173006_20190219T174057_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR NOPM 2 20190219T183807 20190219T185323 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  Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190219T185547_20190219T190027_C001		records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190219T190030_20190219T190043_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_20190219T190629_20190219T193347_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_20190219T213921_20190219T221235_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190219T221359_20190219T221854_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190219T221901_20190219T222230_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_20190219T222537_20190219T223712_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_20190219T224245_20190219T230032_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190219T231327_20190219T231455_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_20190219T234543_20190219T234706_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_20190219T234906_20190219T235214_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_20190219T235357_20190219T235924_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190219T031402_20190219T031417_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_20190219T053841_20190219T054126_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190219T102112_20190219T102645_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
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SWH Averaging Status Ocean  The SWH and Ocean Averaging Status Flags have been set for one or			The SWH and Ocean Averaging Status Flags have been set for one or more records.
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_NOPR_2_20190219T140317_20190219T140324_C001	Ice Backscatter Averaging Status	

## 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:

48