



## 1. Overview

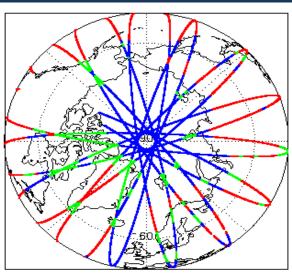
Report Production:	12-Dec-2017		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data		

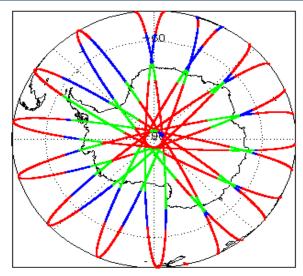
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

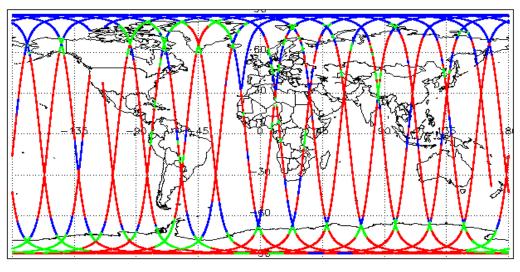
		iment News	
09-Dec-	2017	None	

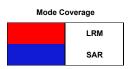
10-Dec-2017 None 11-Dec-2017 Nothing planned

# 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. IOP 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.

Number of products with errors:

77

Decident	Test Falled	Description
Product  CS_OFFL_SIR_IOPM1B_20171210T024445_20171210T025624_C001	Test Failed Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171210T002722_20171210T002725_C001	Attitude correction missing	records The attitude has not been corrected
CS OFFL SIR IOPR1B 20171210T002730 20171210T002751 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T002756_20171210T002759_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T003608_20171210T003730_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T003934_20171210T004150_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171210T004936 20171210T004959 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T014946_20171210T015319_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T020409_20171210T020411_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T020414_20171210T020448_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T020451_20171210T020456_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T020854_20171210T021451_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171210T034318 20171210T034321 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T035220_20171210T035532_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T040123_20171210T040238_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T040123_20171210T040230_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T051328_20171210T051412_C001  CS_OFFL_SIR_IOPR1B_20171210T052708_20171210T052746_C001		
	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T052746_20171210T053444_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T054154_20171210T054200_C001	Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T070944_20171210T071512_C001	Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20171210T073821_20171210T074357_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T075341_20171210T075726_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T080838_20171210T080946_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T082946_20171210T083010_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T083543_20171210T083649_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T084714_20171210T084802_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T084818_20171210T084827_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T085745_20171210T085825_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T093337_20171210T093713_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T094653_20171210T095007_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T095025_20171210T095224_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T095500_20171210T095651_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T101506_20171210T101528_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T102012_20171210T102148_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T102548_20171210T102638_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T1111253_20171210T1111452_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T112608_20171210T112937_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T113950_20171210T114138_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T120321_20171210T120323_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T120347_20171210T120418_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T121656_20171210T121857_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T125205_20171210T125235_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T125926_20171210T125932_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T130414_20171210T131028_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T134717_20171210T135258_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T135724_20171210T135935_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T135943_20171210T135944_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T135951_20171210T140012_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T141347_20171210T141550_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T143105_20171210T143139_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T143837_20171210T143843_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T151635_20171210T151841_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T151857_20171210T152031_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T152328_20171210T152419_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_IOPR1B_20171210T152631_20171210T153320_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T154703_20171210T155127_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T155318_20171210T155549_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T161008_20171210T161036_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T174920_20171210T175048_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T180225_20171210T180337_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T184925_20171210T185309_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T192828_20171210T192931_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T201914_20171210T201946_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T203739_20171210T203937_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T204037_20171210T204104_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T205921_20171210T210250_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T210642_20171210T210945_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T211955_20171210T212320_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T215619_20171210T215646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T220627_20171210T220749_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T220814_20171210T220820_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T220846_20171210T220939_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T221203_20171210T221526_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T225842_20171210T230152_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T233823_20171210T233841_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T233844_20171210T234526_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171210T234526_20171210T234948_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.

18

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171210T105116_20171210T111253_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171210T150424_20171210T151634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171210T180337_20171210T183159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171210T053445_20171210T053932_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171210T1111452_20171210T1111906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171210T120418_20171210T120821_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171210T152031_20171210T152328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171210T152419_20171210T152631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T011353_20171210T012053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T075341_20171210T075726_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T083543_20171210T083649_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T093337_20171210T093713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T130414_20171210T131028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T152328_20171210T152419_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T155318_20171210T155549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T203739_20171210T203937_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T211955_20171210T212320_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171210T234526_20171210T234948_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. IOP 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:

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:

#### 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:

C

### 5.5 L2 Measurement Confidence Data Check

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171210T024445_20171210T025624_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171209T235821_20171210T002444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T004236_20171210T004936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T004959_20171210T011353_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T013216_20171210T014849_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T015319_20171210T020120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T022249_20171210T023826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T024445_20171210T025624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T030506_20171210T030930_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T031146_20171210T032614_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T032753_20171210T034228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T040444_20171210T041153_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T041316_20171210T041803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T042038_20171210T043656_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T043957_20171210T044840_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T045105_20171210T051327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T054200_20171210T061538_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T062204_20171210T062634_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T063022_20171210T065633_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T072501_20171210T073821_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T074357_20171210T075340_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T080120_20171210T080712_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T080946_20171210T082945_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T085940_20171210T093336_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T094027_20171210T094543_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T095225_20171210T095500_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T095651_20171210T095803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T102310_20171210T102547_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T103917_20171210T104830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T105116_20171210T111253_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T111906_20171210T112027_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T112035_20171210T112442_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T112937_20171210T113950_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T114138_20171210T114854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T114937_20171210T115412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T120324_20171210T120346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T121857_20171210T125204_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T125406_20171210T125926_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T125945_20171210T130228_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T131028_20171210T134038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T140132_20171210T141346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T141550_20171210T143105_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

OS. OFFL_SIR_JOPM_2_20171210716942_20171210716938_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more control.  OS. OFFL_SIR_JOPM_2_20171210716942_20171210716938_0001  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.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Ocean Range Averaging	CS_OFFL_SIR_IOPM_2_20171210T143322_20171210T143823_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
Cocen Range Averaging Status Fectors  Ocean Range Averaging Status Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has been set for one or more Fectors  The Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one or more Fectors  Ocean Range Averaging Status Flag has Deen set for one o	CS_OFFL_SIR_IOPM_2_20171210T144743_20171210T145805_C001	Ocean Range Averaging Status	
Ocean Range Averaging Status  CS_OFFL_SIR_JOPM_2_2017/2101761282 2017/2101761793-2001  CS_OFFL_SIR_JOPM_2_2017/210176247_201712101761901_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  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	CS_OFFL_SIR_IOPM_2_20171210T150424_20171210T151634_C001	Ocean Range Averaging Status	
CS_OFFL_SR_IOPM_2_201712107169267_20171207169691_C001  CS_OFFL_SIR_IOPM_2_201712107169272_2017121071769691_C001  CS_OFFL_SIR_IOPM_2_201712107172546_201712107176969_C001  CS_OFFL_SIR_IOPM_2_201712107176930_20171210718690_C001  CS_OFFL_SIR_IOPM_2_201712107176930_20171210718690_C001  CS_OFFL_SIR_IOPM_2_201712107187930_20171210718690_C001  CS_OFFL_SIR_IOPM_2_201712107187930_20171210718690_C001  CS_OFFL_SIR_IOPM_2_201712107189302_20171210718900_C001  CS_OFFL_SIR_IOPM_2_201712107189302_201712107189300_C001  CS_OFFL_SIR_IOPM_2_20171210719302_201712107193000_C001  CS_OFFL_SIR_IOPM_2_20171210719302_201712107193000_C001  CS_OFFL_SIR_IOPM_2_20171210719302_201712107193000_C001  CS_OFFL_SIR_IOPM_2_20171210719302_201712107193000_C001  CS_OFFL_SIR_IOPM_2_201712107193000_C001  CS_OFFL_SIR_IOPM_2_201712107193000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071093000_C001  CS_OFFL_SIR_IOPM_2_2017121071000000_C001  CS_OFFL_SIR_IOPM_2_2017121071000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20171210T155127_20171210T155318_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_LOPM_2_20171210T162427_20171210T1650S0_CO01  CS_OFFL_SIR_LOPM_2_20171210T175242_20171210T1750S0_CO01  CS_OFFL_SIR_LOPM_2_20171210T175242_20171210T1750S0_CO01  CS_OFFL_SIR_LOPM_2_20171210T175232_20171210T1750S0_CO01  CS_OFFL_SIR_LOPM_2_20171210T175232_20171210T1750S0_CO01  CS_OFFL_SIR_LOPM_2_20171210T175232_20171210T180041_CO01  CS_OFFL_SIR_LOPM_2_20171210T190337_20171210T180550_CO01  CS_OFFL_SIR_LOPM_2_20171210T190337_20171210T190804_CO01  CS_OFFL_SIR_LOPM_2_20171210T190337_20171210T190804_CO01  CS_OFFL_SIR_LOPM_2_20171210T1930S2_20171210T190804_CO01  CS_OFFL_SIR_LOPM_2_20171210T1930S2_20171210T190804_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S02_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T190S04_CO01  CS_OFFL_SIR_LOPM_2_20171210T1201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T201505_CO01  CS_OFFL_SIR_LOPM_2_20171210T2004506_CO01  CS_OFFL_SIR_LOPM_2_20171210T2004506_CO01  CS_OFFL_SIR_LOPM_2_20171210T2004506_CO01  CS_OFFL_SIR_LOPM_2_20171210T2004506_CO01  CS_OFFL_SIR_LOPM_2_20171210T2004506_CO01  CS_OFFL_SIR_LOPM_2_20171210T2005206_C00171210T2005206_C001  CS_OFFL_SIR_LOPM_2_20171210T2005206_C00171210T2005406_C001  CS_OFFL_SIR_LOPM_2_20171210T005406_C001  CS_OFFL_SIR_LOPM_2_20171210T00540	CS_OFFL_SIR_IOPM_2_20171210T155549_20171210T161007_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_LOPM_2_20171210T1723048_20171210T1730930_2010  CS_OFFL_SIR_LOPM_2_20171210T173020_20171210T1730930_2010  CS_OFFL_SIR_LOPM_2_20171210T173020_20171210T180301_2010  CS_OFFL_SIR_LOPM_2_20171210T180337_20171210T180350_2001  CS_OFFL_SIR_LOPM_2_20171210T180337_20171210T180350_2001  CS_OFFL_SIR_LOPM_2_20171210T180337_20171210T180350_2001  CS_OFFL_SIR_LOPM_2_20171210T180337_20171210T180350_2001  CS_OFFL_SIR_LOPM_2_20171210T180350_20171210T180582_20171210T	CS_OFFL_SIR_IOPM_2_20171210T161236_20171210T161734_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T193037_20171210T195050_C001  CS_OFFL_SIR_IOPM_2_20171210T193037_20171210T195050_C001  CS_OFFL_SIR_IOPM_2_20171210T193037_20171210T195050_C001  CS_OFFL_SIR_IOPM_2_20171210T193037_20171210T193050_C001  CS_OFFL_SIR_IOPM_2_20171210T193050_20171210T193050_C001  CS_OFFL_SIR_IOPM_2_20171210T19301_20171210T193050_C001  CS_OFFL_SIR_IOPM_2_20171210T193011_20171210T195050_C001  CS_OFFL_SIR_IOPM_2_20171210T193011_20171210T195015_C001  CS_OFFL_SIR_IOPM_2_20171210T193011_20171210T195015_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T201404_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2040104_20171210T204055_C001  CS_OFFL_SIR_IOPM_2_20171210T2040104_20171210T204050_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2004050_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2004050_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2004050_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210041_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210040_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210040_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210040_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210040_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210040_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T210040_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_20171210T2030302_20171210T2030302_C001  CS_OFFL_SIR_IOPM_2_201712107003102_2017210003102_C001  CS_OFFL_SIR_IO	CS_OFFL_SIR_IOPM_2_20171210T162427_20171210T165801_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201712101176312_01712101180041_C001  CS_OFFL_SIR_IOPM_2_20171210176313_01712101180041_C001  CS_OFFL_SIR_IOPM_2_201712101180037_201712101180041_C001  CS_OFFL_SIR_IOPM_2_201712101180037_201712101180041_C001  CS_OFFL_SIR_IOPM_2_201712101190352_01712101192827_C001  CS_OFFL_SIR_IOPM_2_201712101190352_01712101193904_C001  CS_OFFL_SIR_IOPM_2_201712101193041_2017133094_C001  CS_OFFL_SIR_IOPM_2_201712101193041_2017133094_C001  CS_OFFL_SIR_IOPM_2_201712101193041_2017133094_C001  CS_OFFL_SIR_IOPM_2_201712101193041_2017133094_C001  CS_OFFL_SIR_IOPM_2_201712101193041_2017133094_C001  CS_OFFL_SIR_IOPM_2_201712101193041_201712107125001  CS_OFFL_SIR_IOPM_2_201712101193041_201712107250_C001  CS_OFFL_SIR_IOPM_2_201712101193062_2017121017250_C001  CS_OFFL_SIR_IOPM_2_20171210120306_20171210720302_C001  CS_OFFL_SIR_IOPM_2_20171210120306_2017121072050_C001  CS_OFFL_SIR_IOPM_2_20171210120404_201712107204055_C001  CS_OFFL_SIR_IOPM_2_2017121012010404_201712107204055_C001  CS_OFFL_SIR_IOPM_2_2017121012010404_201712107204055_C001  CS_OFFL_SIR_IOPM_2_2017121012010404_201712107204055_C001  CS_OFFL_SIR_IOPM_2_2017121012010404_201712107104050_C001  CS_OFFL_SIR_IOPM_2_201712101201101_10104112010410410410171210104050_C001  CS_OFFL_SIR_IOPM_2_201712101201101_10104112010411201014042_C001  CS_OFFL_SIR_IOPM_2_201712101201205_201712101210442_C001  CS_OFFL_SIR_IOPM_2_201712101201205_2005_2017121012042531_C001  CS_OFFL_SIR_IOPM_2_20171210120306_20171210120531_C001  CS_OFFL_SIR_IOPM_2_20171210120306_201712101205331_C001  CS_OFFL_SIR_IOPM_2_20171210120306_201712101205331_C001  CS_OFFL_SIR_IOPM_2_201712101030107_2017121012033046_C001  CS_OFFL_SIR_IOPM_2_201712101030107_2017121010330306_C001  CS_OFFL_SIR_IOPM_2_2017121010030107_2017121010330306_C001  CS_OFFL_SIR_IOPM_2_201712101030107_2017121010330306_C001  CS_OFFL_SIR_IOPM_2_2017121010030107_2017121010330306_C001  CS_OFFL_SIR_IOPM_2_2017121010030107_2017121010330306_C001  CS_OFFL_SIR_IOPM_2_20171210030107_2017121010330306_C001  CS_OFFL_SIR_IOPM_2_20171210030107_2017121010303006_C001	CS_OFFL_SIR_IOPM_2_20171210T172548_20171210T174919_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T180337_20171210T180359_CO01  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 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 F	CS_OFFL_SIR_IOPM_2_20171210T175320_20171210T175650_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T190352_20171210T19380TCOTON  CS_OFFL_SIR_IOPM_2_20171210T1930T1_20171210T19380TCOTON  CS_OFFL_SIR_IOPM_2_20171210T1930T1_20171210T193939_COTON  CS_OFFL_SIR_IOPM_2_20171210T1930T1_20171210T193939_COTON  CS_OFFL_SIR_IOPM_2_20171210T1930T1_20171210T193939_COTON  CS_OFFL_SIR_IOPM_2_20171210T19441T_20171210T195415_COTON  CS_OFFL_SIR_IOPM_2_20171210T193036_20171210T10201725_COTON  CS_OFFL_SIR_IOPM_2_20171210T103036_20171210T1030302_COTON  CS_OFFL_SIR_IOPM_2_20171210T10303036_20171210T1030302_COTON  CS_OFFL_SIR_IOPM_2_20171210T10203036_20171210T1030305_COTON  CS_OFFL_SIR_IOPM_2_20171210T10203036_20171210T1030305_COTON  CS_OFFL_SIR_IOPM_2_20171210T10203036_20171210T1030305_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T1030305_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T1004055_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T10642C_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T10642C_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T106405_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T106405_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T106405_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T106405_COTON  CS_OFFL_SIR_IOPM_2_20171210T102050_20171210T106405_COTON  CS_OFFL_SIR_IOPM_2_20171210T10050_00171210T106405_COTON  CS_OFFL_SIR_IOPM_2_20171210T10050_00171210T1003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T1003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T003107_2017121003105_COTON  CS_OFFL_SIR_IOPM_2_20171210T003107_2017121003105_C	CS_OFFL_SIR_IOPM_2_20171210T175713_20171210T180041_C001	Ice Range Averaging Status	
CS_OFFL_SIR_JOPM_2_20171210T193102_20171210T19390_C0011	CS_OFFL_SIR_IOPM_2_20171210T180337_20171210T183159_C001	Ocean Range Averaging Status	
tes Arange Averaging Status  CS_OFFL_SIR_IOPM_2_201712/10T193911_20171290T1939392_C001  CS_OFFL_SIR_IOPM_2_201712/10T194411_20171291725_C001  CS_OFFL_SIR_IOPM_2_201712/10T194411_201712/10T20502_C001  CS_OFFL_SIR_IOPM_2_201712/10T203036_201712/10T203022_C001  CS_OFFL_SIR_IOPM_2_201712/10T203036_201712/10T203022_C001  CS_OFFL_SIR_IOPM_2_201712/10T203036_201712/10T2040455_C001  CS_OFFL_SIR_IOPM_2_201712/10T204104_201712/10T204055_C001  CS_OFFL_SIR_IOPM_2_201712/10T203036_201712/10T204055_C001  CS_OFFL_SIR_IOPM_2_201712/10T20500_201712/10T204055_C001  CS_OFFL_SIR_IOPM_2_201712/10T20500_201712/10T201862_C001  CS_OFFL_SIR_IOPM_2_201712/10T202020_201712/10T211836_C001  CS_OFFL_SIR_IOPM_2_201712/10T202006_201712/10T215619_C001  CS_OFFL_SIR_IOPM_2_201712/10T202006_201712/10T20551_C001  CS_OFFL_SIR_IOPM_2_201712/10T20502_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T205022_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T205022_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T205022_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T205022_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T2005105_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T2005105_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T2005105_201712/10T205531_C001  CS_OFFL_SIR_IOPM_2_201712/10T003107_201712/10T2053548_C001  CS_OFFL_SIR_IOPM_2_201712/10T003107_201712/10T2053548_C001  CS_OFFL_SIR_IOPM_2_201712/10T003107_201712/10T003204_C001  CS_OFFL_SIR_IOPM_2_201712/10T003107_201712/10T005204_C001  CS_OFFL_SIR_IOPM_2_201712/10T003107_201712/10T005204_C001  CS_OFFL_SIR_IOPM_2_201712/10T003107_201712/10T0050500_2	CS_OFFL_SIR_IOPM_2_20171210T190352_20171210T192827_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T199411_20171210T199415_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20171210T1905952_20171210T1203202_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20171210T203006_20171210T203202_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  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 Ra	CS_OFFL_SIR_IOPM_2_20171210T193102_20171210T193604_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T199952_20171210T203202_C001  CS_OFFL_SIR_IOPM_2_20171210T203036_20171210T203202_C001  CS_OFFL_SIR_IOPM_2_20171210T203036_20171210T203202_C001  CS_OFFL_SIR_IOPM_2_20171210T204104_20171210T204955_C001  CS_OFFL_SIR_IOPM_2_20171210T204046_20171210T204955_C001  CS_OFFL_SIR_IOPM_2_20171210T2050_20171210T210642_C001  CS_OFFL_SIR_IOPM_2_20171210T21050_20171210T210642_C001  CS_OFFL_SIR_IOPM_2_20171210T21050_20171210T210642_C001  CS_OFFL_SIR_IOPM_2_20171210T211012050_20171210T21666_C001  CS_OFFL_SIR_IOPM_2_20171210T21101201721210F366_C001  CS_OFFL_SIR_IOPM_2_20171210T2122006_20171210T215669_C001  CS_OFFL_SIR_IOPM_2_20171210T222006_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T22006_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T201502_0171210T23548_C001  CS_OFFL_SIR_IOPM_2_20171210T030170_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003104026_C001  CS_OFFL_SIR_IOPM_2_20171210T003173_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T003713_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T10037130_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T10037130_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T10037130_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T10037130_20171210T1004026_C001  CS_OFFL_SIR_IOPM_2_20171210T1003713_20171210T1004026_C001  CS_OFFL_SIR_IOPM_2_2017	CS_OFFL_SIR_IOPM_2_20171210T193611_20171210T193939_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_2017/210179992_2017/21017203202_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  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 F	CS_OFFL_SIR_IOPM_2_20171210T194411_20171210T195415_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171210T204104_20171210T204955_C001  Ocean Range Averaging Status  Fecords.  CS_OFFL_SIR_IOPM_2_20171210T2012050_20171210T210642_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171210T212320_20171210T215619_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice 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_IOPM_2_20171210T222906_20171210T224533_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more recor	CS_OFFL_SIR_IOPM_2_20171210T195952_20171210T201725_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T210250_20171210T210642_C001  CS_OFFL_SIR_IOPM_2_20171210T210T210T210642_C001  CS_OFFL_SIR_IOPM_2_20171210T210T210T210T21106_C001  CS_OFFL_SIR_IOPM_2_20171210T21210Z20_20171210T215619_C001  CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T200152_20171210T23548_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003105_C00171210T005200_C00171210T005500_C00171210T005505_C00171210T0055	CS_OFFL_SIR_IOPM_2_20171210T203036_20171210T203202_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201712101210259_201712101210642_C001  CS_OFFL_SIR_IOPM_2_20171210T211101_20171210T211636_C001  CS_OFFL_SIR_IOPM_2_20171210T212320_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T200152_20171210T23548_C001  CS_OFFL_SIR_IOPM_2_20171210T0001107_20171210T0001119_C001  CS_OFFL_SIR_IOPM_2_20171210T0001107_20171210T0001119_C001  CS_OFFL_SIR_IOPM_2_20171210T0001107_20171210T0001119_C001  CS_OFFL_SIR_IOPM_2_20171210T0001107_20171210T0002101  CS_OFFL_SIR_IOPM_2_20171210T0001107_20171210T0002101  CS_OFFL_SIR_IOPM_2_20171210T0000107_20171210T000204_C001  Ice 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 Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice 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 reco	CS_OFFL_SIR_IOPM_2_20171210T204104_20171210T204955_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T212320_20171210T215619_C001  CS_OFFL_SIR_IOPM_2_20171210T222206_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T222206_20171210T224533_C001  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T233548_C001  CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T233548_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003204_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T003713_20171210T004026_C001  CS_OFFL_SIR_IOPM_2_20171210T101037_20171210T101255_C001  CS_OFFL_SIR_IOPM_2_20171210T101037_20171210T101255_C001  CS_OFFL_SIR_IOPM_2_20171210T0022743_20171210T10122506_C001  CS_OFFL_SIR_IOPM_2_20171210T005500_20171210T0222906_C001  CS_OFFL_SIR_IOPM_2_20171210T005500_20171210T005651_C001  CS_OFFL_SIR_IOPR_2_20171210T005500_20171210T020823_C001  CS_OFFL_SIR_IOPR_2_20171210T020049_20171210T020823_C001  CC_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 loc 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 Averagin	CS_OFFL_SIR_IOPM_2_20171210T210250_20171210T210642_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T222531_C001  CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001  CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T233548_C001  CS_OFFL_SIR_IOPM_2_20171210T030107_20171210T033548_C001  CS_OFFL_SIR_IOPM_2_20171210T030107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPM_2_20171210T062103_20171210T062204_C001  CS_OFFL_SIR_IOPM_2_20171210T062103_20171210T094026_C001  CS_OFFL_SIR_IOPM_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPM_2_20171210T161037_20171210T161035_C001  CS_OFFL_SIR_IOPM_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPM_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPM_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPM_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T0202049_20171210T1020232_C001  CS_OFFL_SIR_IOPR_2_20171210T0202049_20171210T12022323_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T1020232_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T1020232_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T1020232_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202032_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202032_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202032_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202032_C001  CO_COMM 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 Averag	CS_OFFL_SIR_IOPM_2_20171210T211101_20171210T211636_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T233548_C001  CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T233548_C001  CS_OFFL_SIR_IOPM_2_20171210T030152_20171210T033119_C001  CS_OFFL_SIR_IOPN_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPN_2_20171210T062103_20171210T062204_C001  CS_OFFL_SIR_IOPN_2_20171210T062103_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T107095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T107095500_20171210T092823_C001  CS_OFFL_SIR_IOPR_2_20171210T093844_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T093844_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T093844_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T093844_20171210T204856_C001  CCS_OFFL_SIR_IOPR_2_20171210T093844_20171210T094656_C001  CCS_OFFL_SIR_IOPR_2_20171210T093844_20171210T094656_C001  CCS_OFFL_SIR_IOPR_2_20171210T	CS_OFFL_SIR_IOPM_2_20171210T212320_20171210T215619_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPN_2_20171210T03107_20171210T03119_C001  CS_OFFL_SIR_IOPN_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPN_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPN_2_20171210T062103_20171210T062204_C001  CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T0202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T202049_20171210T0202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T202049_20171210T020823_C001  CCS_OFFL_SIR_IOPR_2_20171210T202049_20171210T020823_C001  CCS_OFFL_SIR_IOPR_2_20171210T202049_20171210T020823_C001  CCS_OFFL_SIR_IOPR_2_20171210T20049_20171210T020823_C001  CCS_OFFL_SIR_IOPR_2_20171210T20049_20171210T020823_C001  CCS_OFFL_SIR_IOPR_2_20171210T02049_20171210T020823_C001  CCS_OFFL_SIR_IOPR_2	CS_OFFL_SIR_IOPM_2_20171210T222906_20171210T224533_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20171210T003107_20171210T003119_C001  CS_OFFL_SIR_IOPN_2_20171210T0062103_20171210T062204_C001  CS_OFFL_SIR_IOPN_2_20171210T062103_20171210T062204_C001  CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  CS_OFFL_SIR_IOPN_2_20171210T1222743_20171210T222906_C001  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2033844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2049249_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T2044920171210T20449240171210T20449240171210T20449240171210T20449240171210T20449240171210T2044924	CS_OFFL_SIR_IOPM_2_20171210T225022_20171210T225531_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPN_2_20171210T003107_20171210T002204_C001  Ice Range Averaging Status  CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T233548_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001  CS_OFFL_SIR_IOPN_2_20171210T1093713_20171210T1094026_C001  CS_OFFL_SIR_IOPN_2_20171210T101037_20171210T101235_C001  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CCS_OFFL_SIR_IOPR_2_20171210T203844_20171210T204823_C001  CCS_OFFL_SIR_IOPR_2_20171210T20449_20171210T20449240171210T2044924014444444444444444444444444444444	CS_OFFL_SIR_IOPN_2_20171210T003107_20171210T003119_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T1094026_C001  Ice Range Averaging Status  records.  The Ice 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_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T203844_20171210T204526_C001  CS_OFFL_SIR_IOPR_2_20171210T203844_20171210T204526_C001  CCS_OFFL_SIR_IOPR_2_20171210T203844_20171210T204526_C001  CCS_OFFL_SIR_IOPR_2_20171210T2049_20171210T204526_C001  CCS_OFFL_SIR_IOPR_2_20171210T2044_20171210T204526_C001  CCS_OFFL_SIR_IOPR_2_20171210T204	CS_OFFL_SIR_IOPN_2_20171210T062103_20171210T062204_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20171210T101037_20171210T101235_C001  CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001  CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T2020	CS_OFFL_SIR_IOPN_2_20171210T093713_20171210T094026_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_201712101222743_201712101222906_C001  CS_OFFL_SIR_IOPN_2_20171210T095500_20171210T095651_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202049_20171210T202049_20171210T202049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T204049_20171210T2040	CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20171210T095001_20171210T095051_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_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	CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_2017/12101202049_2017/12101202623_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20171210T095500_20171210T095651_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20171210T202049_20171210T202823_C001	Ocean Range Averaging Status	records.
records.	CS_OFFL_SIR_IOPR_2_20171210T233844_20171210T234526_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171209T235821_20171210T002444_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_IOPM_2_20171210T004236_20171210T004936_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_IOPM_2_20171210T004959_20171210T011353_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_IOPM_2_20171210T013216_20171210T014849_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_IOPM_2_20171210T014851_20171210T014946_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_IOPM_2_20171210T015319_20171210T020120_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_IOPM_2_20171210T022249_20171210T023826_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_IOPM_2_20171210T024445_20171210T025624_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_IOPM_2_20171210T030212_20171210T030436_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T030506_20171210T030930_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T031146_20171210T032614_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20171210T032753\_20171210T034228\_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 IOPM 2 20171210T040444 20171210T041153 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\_IOPM\_2\_20171210T041316\_20171210T041803\_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\_IOPM\_2\_20171210T042038\_20171210T043656\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T043957\_20171210T044840\_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\_IOPM\_2\_20171210T045105\_20171210T051327\_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 IOPM 2 20171210T054200 20171210T061538 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171210T062204 20171210T062634 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20171210T063022\_20171210T065633\_C001 more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20171210T072501\_20171210T073821\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20171210T074357\_20171210T075340\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T080120\_20171210T080712\_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\_IOPM\_2\_20171210T080946\_20171210T082945\_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\_IOPM\_2\_20171210T083233\_20171210T083543\_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\_IOPM\_2\_20171210T084616\_20171210T084713\_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 IOPM 2 20171210T085940 20171210T093336 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T094027\_20171210T094543\_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\_IOPM\_2\_20171210T095225\_20171210T095500\_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 IOPM 2 20171210T102310 20171210T102547 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\_IOPM\_2\_20171210T103917\_20171210T104830\_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\_IOPM\_2\_20171210T105116\_20171210T111253\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T112035\_20171210T112442\_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\_IOPM\_2\_20171210T112937\_20171210T113950\_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\_IOPM\_2\_20171210T114138\_20171210T114854\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20171210T114937 20171210T115412 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 IOPM 2 20171210T120324 20171210T120346 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\_IOPM\_2\_20171210T121857\_20171210T125204\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T125406\_20171210T125926\_C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T125945\_20171210T130228\_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 IOPM 2 20171210T131028 20171210T134038 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\_IOPM\_2\_20171210T140132\_20171210T141346\_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\_IOPM\_2\_20171210T141550\_20171210T143105\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T143322\_20171210T143823\_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\_IOPM\_2\_20171210T144743\_20171210T145805\_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\_IOPM\_2\_20171210T150424\_20171210T151634\_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\_IOPM\_2\_20171210T155127\_20171210T155318\_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\_IOPM\_2\_20171210T155549\_20171210T161007\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171210T161236 20171210T161734 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171210T161741 20171210T161753 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\_IOPM\_2\_20171210T162427\_20171210T165801\_C001 **Backscatter Averaging Status** more record The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS\_OFFL\_SIR\_IOPM\_2\_20171210T172548\_20171210T174919\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171210T175320 20171210T175650 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T175713\_20171210T180041\_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\_IOPM\_2\_20171210T180337\_20171210T183159\_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\_IOPM\_2\_20171210T190352\_20171210T192827\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20171210T193102\_20171210T193604\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20171210T193611 20171210T193939 C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20171210T194411\_20171210T195415\_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\_IOPM\_2\_20171210T195952\_20171210T201725\_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 IOPM 2 20171210T203036 20171210T203202 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\_IOPM\_2\_20171210T204104\_20171210T204955\_C001 Backscatter Averaging Status more records.

CS_OFFL_SIR_IOPM_2_20171210T210250_20171210T210642_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_IOPM_2_20171210T211101_20171210T211636_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T212320_20171210T215619_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_IOPM_2_20171210T222906_20171210T224533_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_IOPM_2_20171210T225022_20171210T225531_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171210T230152_20171210T233548_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_IOPN_2_20171210T003107_20171210T003119_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_IOPN_2_20171210T093713_20171210T094026_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171210T161037_20171210T161235_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171210T222743_20171210T222906_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_IOPR_2_20171210T095500_20171210T095651_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_IOPR_2_20171210T202049_20171210T202823_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_IOPR_2_20171210T233844_20171210T234526_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: 55

### 6. IOP L2 Pole-to-Pole Data Quality Check

### 6.1 P2P 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 NetCDF product file (.nc).

Number of products with errors:

#### 6.2 P2P 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:

#### 6.3 P2P 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

#### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

Number of products with errors:

## 6.5 P2P Measurement Confidence Data Check

CryoSat P2P 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171210T021432_20171210T030408_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

### 6.6 P2P Range Measurement Check

CryoSat P2P 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 P2P 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171209T234541_20171210T003518_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T003518_20171210T012454_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T012454_20171210T021432_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T021432_20171210T030408_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T030408_20171210T035345_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T035345_20171210T044321_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T044321_20171210T053259_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T053259_20171210T062235_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T062235_20171210T071212_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T071212_20171210T080149_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_2_20171210T080149_20171210T085126_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T085126_20171210T094102_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T094102_20171210T103040_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T103040_20171210T112016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T112016_20171210T120953_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T125929_20171210T134907_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T134907_20171210T143843_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T152820_20171210T161756_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T161756_20171210T170734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T170734_20171210T175710_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T175710_20171210T184647_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T184647_20171210T193624_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T193624_20171210T202601_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T202601_20171210T211537_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T211537_20171210T220515_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T220515_20171210T225451_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T225451_20171210T234428_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

### 6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P 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 P2P 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171209T234541_20171210T003518_C002	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_IOP_220171210T003518_20171210T012454_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T012454_20171210T021432_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T021432_20171210T030408_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T030408_20171210T035345_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T035345_20171210T044321_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T044321_20171210T053259_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T053259_20171210T062235_C002	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_IOP_220171210T062235_20171210T071212_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T071212_20171210T080149_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_IOP_220171210T080149_20171210T085126_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T085126_20171210T094102_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T094102_20171210T103040_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T103040_20171210T112016_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_IOP_220171210T112016_20171210T120953_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T125929_20171210T134907_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T134907_20171210T143843_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171210T152820_20171210T161756_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_2_20171210T161756_20171210T170734_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_IOP_2_20171210T170734_20171210T175710_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T175710_20171210T184647_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_IOP_2_20171210T184647_20171210T193624_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T193624_20171210T202601_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_IOP_2_20171210T202601_20171210T211537_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T211537_20171210T220515_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171210T220515_20171210T225451_C002	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_IOP_2_20171210T225451_20171210T234428_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

## 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171209T234541_20171210T003518_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T003518_20171210T012454_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T012454_20171210T021432_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T021432_20171210T030408_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T030408_20171210T035345_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T035345_20171210T044321_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T044321_20171210T053259_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T053259_20171210T062235_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T062235_20171210T071212_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T071212_20171210T080149_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T080149_20171210T085126_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T085126_20171210T094102_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T094102_20171210T103040_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T103040_20171210T112016_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T112016_20171210T120953_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T125929_20171210T134907_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T134907_20171210T143843_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T152820_20171210T161756_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T161756_20171210T170734_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T170734_20171210T175710_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T175710_20171210T184647_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T184647_20171210T193624_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T202601_20171210T211537_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T211537_20171210T220515_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T220515_20171210T225451_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171210T225451_20171210T234428_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	1	1