





## 1. Overview

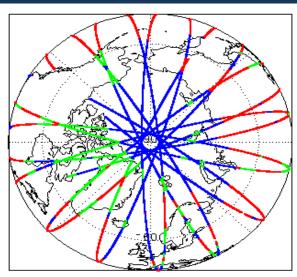
Report Production:	26-Feb-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

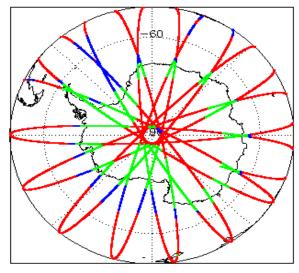
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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

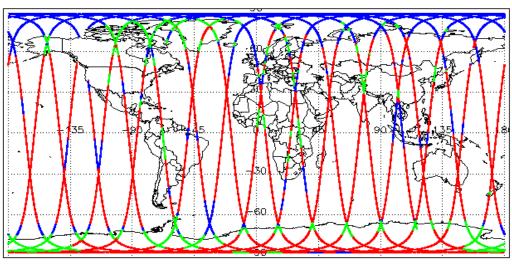
Mission / Instrument News		
21-Feb-2018	None	
22-Feb-2018	None	

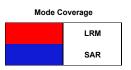
23-Feb-2018 Nothing planned

# 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.

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

## 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

11

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180222T232733_20180222T233918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T044802_20180222T045150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T053553_20180222T053639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T103203_20180222T103608_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T113431_20180222T113701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T221549_20180222T221710_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T225554_20180222T230202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180222T235645_20180222T235727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180222T022000_20180222T022056_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180222T070625_20180222T070748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180222T154121_20180222T154353_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.

lumber of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180222T005517_20180222T010106_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180222T141440_20180222T144059_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180222T213141_20180222T213917_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

72

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180222T000154_20180222T001644_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T010350_20180222T012802_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

Compact   Description   Desc			The Ice Range Averaging Status Flag has been set for one or more
COUNT, IRC, COUNT, COUNTY COUN	CS_OFFL_SIR_IOPM_2_20180222T013026_20180222T013856_C001	Ice Range Averaging Status	records.
Corp., Spr. (CML 2_2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	CS_OFFL_SIR_IOPM_2_20180222T014104_20180222T020656_C001	Ocean Range Averaging Status	records.
Completed Comp	CS_OFFL_SIR_IOPM_2_20180222T023914_20180222T025004_C001	Ocean Range Averaging Status	
Co. OHL SR LIGHT 2 DISSIDEZITIONS CONTROLOGICATION CONTROLOGICAL CONTROL	CS_OFFL_SIR_IOPM_2_20180222T025511_20180222T030654_C001	Ocean Range Averaging Status	
Control   Cont	CS_OFFL_SIR_IOPM_2_20180222T031238_20180222T031655_C001	Ice Range Averaging Status	
Con-H. SR (10M 2, 20180227155450 28190227106450 (2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155450 28190227106510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 28190227106510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 28190227106510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 20180227155545 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715515 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715515 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 201802271551 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227005161, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 2819022700510, 2019) Con-Principle Appropriage States Col., OHL SR (10M 2, 2018022715111 28190227011051) Con-Principle Appr	CS_OFFL_SIR_IOPM_2_20180222T031947_20180222T034706_C001	Ocean Range Averaging Status	
Court   Set Comp 2   20192227100102   20192271001010   20192271001010   201	CS_OFFL_SIR_IOPM_2_20180222T041319_20180222T042854_C001	Ocean Range Averaging Status	
Delication Control (1997) Control (1	CS_OFFL_SIR_IOPM_2_20180222T043423_20180222T044559_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Description of the control of the co	CS_OFFL_SIR_IOPM_2_20180222T045150_20180222T045735_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
Co CFE, SPI, 10PM 2, 2010022271005042, 010022271005052, 0201  Co CFE, SPI, DOWN 2, 2010022271005052, 010022271005052, 0201  Co CFE, SPI, DOWN 2, 2010022271005052, 010022271005052, 0201  Co CFE, SPI, DOWN 2, 2010022271005052, 0201022271005052, 0201  Co CFE, SPI, DOWN 2, 2010022271005052, 020102	CS_OFFL_SIR_IOPM_2_20180222T045853_20180222T050516_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Country July Corm J. 2010/2227100356 _ 00100227100355 _ 0	CS OFFL SIR IOPM 2 20180222T053640 20180222T053727 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Co., OFFE, SR., JOHN J., 20180227105472, 018002271054752,	CS OFFL SIR IOPM 2 20180222T055045 20180222T062531 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Co. OFTL. SIR. (DPM. 2. 201002221708597.2 201902221708900.0001  Co. OFTL. SIR. (DPM. 2. 201002221708101.0001  Co. OFTL. SIR. (DPM. 2. 201002221708101.001  Co. OFTL. SIR. (DPM. 2. 20100221708101.001  Co. OFTL. SIR. (DPM. 2. 201002217108101.001  Co. OFTL. SIR. (DPM. 2. 20100221710801.001  Co. OFTL. SIR. (DPM. 2			The Ice Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_OPNL_2_01802227108104_C010  CS_OFFL_SIR_OPNL_2_01802227108504_C010  CS_OFFL_SIR_OPNL_2_01802227109504_C010  CS_OFFL_SIR_OPNL_2_01802227110950_C010  CS_OFF			
CS_OFFL_SR_UPML_2.0180222195314_201800221103151_C001  CS_OFFL_SR_UPML_2.0180222196535_20180022103151_C001  CS_OFFL_SR_UPML_2.0180222196535_20180022103151_C001  CS_OFFL_SR_UPML_2.0180222106535_20180022103151_C001  CS_OFFL_SR_UPML_2.0180222106535_20180022103151_C001  CS_OFFL_SR_UPML_2.0180222106535_20180022103151_C001  CS_OFFL_SR_UPML_2.0180222106535_201800220031  CS_OFFL_SR_UPML_2.0180222106535_201800320031  CS_OFFL_SR_UPML_2.0180222106535_201800320031  CS_OFFL_SR_UPML_2.0180222106535_201800320031  CS_OFFL_SR_UPML_2.01802221106450_C001  CS_OFFL_SR_UPML_2.01802221106550_C001  CS_OFFL_SR_UPML_2.01802221106500_C001  CS_OFFL_SR_UPML_2.01802221106500_C001  CS_OFFL_SR_UPML_2.01802221106500_C001  CS_OFFL_SR_UPML_2.01802221106500_C001  CS_OFFL_SR_UPML_2.01802221106500_C001  CS_OFFL_SR_UPML_2.01802221106500_C001  CS_OFFL_SR_UPML_2.01802221110650_C001  CS_OFFL_SR_UPML_2.0180			
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So, OFFL_SR_JOPM_2_20160222710314_20160222703420_C001  Osean Range Averaging Status  Osean Range Averaging Status  Fibe Range Averag	CS_OFFL_SIR_IOPM_2_20180222T085304_20180222T085340_C001	Ocean Range Averaging Status	records.
Ocean Range Averaging Status Fig. 10PM 2_20180222T10450_20180222T10450_20180222T10450_20180022T10450_2018022T10450_2018022T10450_2018022T10450_2018022T10450_2018022T10450_2018022T10450_2018022T10450_2018022T10450_20180022T10450_20180022T10450_20180022T10450_20180022T10450_20180022T110450_20180022T	CS_OFFL_SIR_IOPM_2_20180222T085635_20180222T085731_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180222T10459_20180222T110459_20180222T10459_20180	CS_OFFL_SIR_IOPM_2_20180222T091114_20180222T092312_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180222T103297_2019022T101327_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180222T104087_20180222T104097_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180222T10407_20180222T10409_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.  CS_OFFL_SIR_IOPM_2_20180222T110632_20180222T112051_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 Oce	CS_OFFL_SIR_IOPM_2_20180222T092511_20180222T094302_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_LOPM_2_20180222T104507_20180222T105037_C0010  CS_OFFL_SIR_LOPM_2_20180222T106407_20180222T105037_C0010  CS_OFFL_SIR_LOPM_2_20180222T106407_20180222T105037_C0010  CS_OFFL_SIR_LOPM_2_20180222T106407_20180222T105037_C0010  CS_OFFL_SIR_LOPM_2_20180222T106307_20180222T112051_C001  CS_OFFL_SIR_LOPM_2_20180222T106307_20180222T112051_C001  CS_OFFL_SIR_LOPM_2_20180222T110357_20180222T112051_C001  CS_OFFL_SIR_LOPM_2_20180222T110357_20180222T112051_C001  CS_OFFL_SIR_LOPM_2_20180222T112057_20180222T1120501_C001  CS_OFFL_SIR_LOPM_2_20180222T1105032_C0180222T1105032_C0010  CS_OFFL_SIR_LOPM_2_20180222T1105032_C0180222T1105032_C0010  CS_OFFL_SIR_LOPM_2_20180222T1105032_C0180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T110504_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T110504_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T110504_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T130050_2018022T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T130050_C001  CS_OFFL_SIR_LOPM_2_20180222T16050_C001  CS_OFFL_SIR_LOPM_	CS_OFFL_SIR_IOPM_2_20180222T094431_20180222T094953_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPML2_20180222T108407_20180222T105407_2018022T105407_2018022	CS_OFFL_SIR_IOPM_2_20180222T100102_20180222T101327_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T102832_20180222T11201_C001  CS_OFFL_SIR_IOPM_2_20180222T11208_20180222T11201_C001  CS_OFFL_SIR_IOPM_2_20180222T11208_20180222T11201_C001  CS_OFFL_SIR_IOPM_2_20180222T11208_20180222T11201_C001  CS_OFFL_SIR_IOPM_2_20180222T11208_20180222T11201_C001  CS_OFFL_SIR_IOPM_2_2018022T113034_C0018022T11201_C001  CS_OFFL_SIR_IOPM_2_2018022T113034_C0018022T11201_C001  CS_OFFL_SIR_IOPM_2_2018022T113034_C0018022T11201_C001  CS_OFFL_SIR_IOPM_2_2018022T113034_C0018022T11301_C001  CS_OFFL_SIR_IOPM_2_2018022T113034_C0018022T13020001  CS_OFFL_SIR_IOPM_2_2018022T130334_2018022T13020001  CS_OFFL_SIR_IOPM_2_2018022T130334_2018022T130200_C001  CS_OFFL_SIR_IOPM_2_2018022T130384_C0018022T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130384_C0018022T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130384_C0018022T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T13002_C001  CS_OFFL_SIR_IOPM_2_2018022T130022T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130022T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130022T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130022T144020000001  CS_OFFL_SIR_IOPM_2_2018022T130002T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T13000_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T144059_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T144059_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T144059_C001  CS_OFFL_SIR_IOPM_2_2018022T130002T14000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180222T101459_20180222T102725_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T110632_20180222T11201_C001  CS_OFFL_SIR_IOPM_2_20180222T112057_20180222T112051_C001  CS_OFFL_SIR_IOPM_2_20180222T112052_0001  CS_OFFL_SIR_IOPM_2_20180222T112052_0001  CS_OFFL_SIR_IOPM_2_20180222T112052_0001  CS_OFFL_SIR_IOPM_2_20180222T113014_20180222T14122_0001  CS_OFFL_SIR_IOPM_2_20180222T113014_20180222T14122_0001  CS_OFFL_SIR_IOPM_2_20180222T113014_20180222T14122_0001  CS_OFFL_SIR_IOPM_2_20180222T113014_20180222T140752_0001  CS_OFFL_SIR_IOPM_2_20180222T13014_20180222T13015_0001  CS_OFFL_SIR_IOPM_2_20180222T13014_20180222T130152_0001  CS_OFFL_SIR_IOPM_2_20180222T13014_20180222T130800_C001  CS_OFFL_SIR_IOPM_2_20180222T13014_20180222T130800_C001  CS_OFFL_SIR_IOPM_2_20180222T13014_20180222T130800_C001  CS_OFFL_SIR_IOPM_2_20180222T13014_20180222T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T13018022T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_2011  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T130100_C001  CS_OFFL_SIR_IOPM_2_20180222T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T14000_C001  CS_OFFL_SIR_IOPM_2_20180222T14000_C001  CS_OFFL_SIR_IOPM_2_20180222T14000_C001  CS_OFFL_SIR_IOPM_2_20180222T14000_C001  CS_OFFL_SIR_IOPM_2_20180222T14000_C001  CS_OFFL_SIR_IOPM_2_20180022T14000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180022T16000_C001  CS_OFFL_SIR_IOPM_2_20180000_C001  CS_OFFL_SIR_IOPM_2_201800000_C001  CS_OFFL_SIR_IOPM_2_201800000_C001  CS_OFFL_SIR_IOPM_2_20180000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180222T102857_20180222T103157_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T112357_2018022ZT112851_CO01  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_2018022ZT112928_2018022ZT113045_CO01  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.  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 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 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 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.  T	CS_OFFL_SIR_IOPM_2_20180222T105407_20180222T110429_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_JOPM_2_20180222T113928_2018022ZT114122_001  CS_OFFL_SIR_JOPM_2_2018022ZT114701_2018022ZT114122_001  CS_OFFL_SIR_JOPM_2_2018022ZT1145514_2018022ZT120752_001  CS_OFFL_SIR_JOPM_2_2018022ZT115514_2018022ZT120752_001  CS_OFFL_SIR_JOPM_2_2018022ZT13034_2018022ZT130112_001  CS_OFFL_SIR_JOPM_2_2018022ZT13034_2018022ZT130112_001  CS_OFFL_SIR_JOPM_2_2018022ZT13034_2018022ZT130820_001  CS_OFFL_SIR_JOPM_2_2018022ZT130826_2018022ZT130820_001  CS_OFFL_SIR_JOPM_2_2018022ZT130826_2018022ZT130820_001  CS_OFFL_SIR_JOPM_2_2018022ZT130826_2018022ZT130825_001  CS_OFFL_SIR_JOPM_2_2018022ZT130841_2018022ZT131010_001  CS_OFFL_SIR_JOPM_2_2018022ZT1310401_2018022ZT134126_001  CS_OFFL_SIR_JOPM_2_2018022ZT143026_2018022ZT144195_001  CS_OFFL_SIR_JOPM_2_2018022ZT1443026_2018022ZT144195_001  CS_OFFL_SIR_JOPM_2_2018022ZT144026_2018022ZT144105_001  CS_OFFL_SIR_JOPM_2_2018022ZT143056_2018022ZT144105_001  CS_OFFL_SIR_JOPM_2_2018022ZT143056_2018022ZT144105_001  CS_OFFL_SIR_JOPM_2_2018022ZT143056_2018022ZT144105_001  CS_OFFL_SIR_JOPM_2_2018022ZT144056_2018022ZT144105_001  CS_OFFL_SIR_JOPM_2_2018022ZT144056_2018022ZT144105_001  CS_OFFL_SIR_JOPM_2_2018022ZT14056_0022T144056_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT140565_001  CS_OFFL_SIR_JOPM_2_2018002ZT160565_001  CS_OFFL_SIR_JOPM_2_2018002ZT160565_001  CS_OFFL_SIR_JOPM_2_2018002ZT160565_001  CS_OFFL_SIR_JOPM_2_2018002ZT160565_001  CS_OFFL_SIR_JOPM_2_2018002ZT175050_2018002ZT175055_001  CS_OFFL_SIR_JOPM_2_2018002ZT175050_2018002ZT175050_001  CS_OFFL_SIR_JOPM_2_2018002ZT175066_201802ZT175050_001  CS_OFFL_SIR_JOPM_2_2018002ZT175066_201802ZT175065_001  CS_OFFL_SIR_JOPM_2_2018002ZT175066_201802ZT175065_001  CS_OFFL_SIR_JOPM_2_2018002ZT175066_201802ZT175065_001  CS_OFFL_SIR_JOPM_2_2018002ZT175066_2018002ZT175060_001  CS_OFFL_SIR_JOPM_2_2018002ZT175066_2018002ZT175	CS_OFFL_SIR_IOPM_2_20180222T110632_20180222T112201_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T113701_20180222T112C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180222T115514_20180222T115514_20180222T115514_20180222T115514_20180222T115514_2018022T115514553_2018022T1155145_2018022T1155150_2015_2015_2015_2015_2015_2015_20	CS_OFFL_SIR_IOPM_2_20180222T112357_20180222T112851_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T14524_20180222T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T13034_20180222T13000_C001  CS_OFFL_SIR_IOPM_2_20180222T130002_C001  CS_OFFL_SIR_IOPM_2_20180222T134002_C001  CS_OFFL_SIR_IOPM_2_20180222T134002_C001  CS_OFFL_SIR_IOPM_2_20180222T1444050_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T144306_C001  CS_OFFL_SIR_IOPM_2_20180222T145305_C001  CS_OFFL_SIR_IOPM_2_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T1506_00000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180222T112928_20180222T113045_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T130820_C001  CS_OFFL_SIR_IOPM_2_20180222T130825_C0180222T130835_C001  CS_OFFL_SIR_IOPM_2_2018022T130825_C0180222T130835_C001  CS_OFFL_SIR_IOPM_2_2018022T130835_C001  CS_OFFL_SIR_IOPM_2_2018022T130835_C001  CS_OFFL_SIR_IOPM_2_2018022T130825_C018022T130835_C001  CS_OFFL_SIR_IOPM_2_2018022T130825_C018022T130835_C001  CS_OFFL_SIR_IOPM_2_2018022T131401_2018022ZT13000_C001  CS_OFFL_SIR_IOPM_2_2018022T131401_2018022ZT134126_C001  CS_OFFL_SIR_IOPM_2_2018022T131401_2018022ZT134126_C001  CS_OFFL_SIR_IOPM_2_2018022ZT144026_2018022ZT144059_C001  CS_OFFL_SIR_IOPM_2_2018022ZT144026_2018022ZT145555_C001  CS_OFFL_SIR_IOPM_2_2018022ZT14525_2018022ZT150555_C001  CS_OFFL_SIR_IOPM_2_2018022ZT15020_C001  CS_OFFL_SIR_IOPM_2_2018022ZT150202_C001  CS_OFFL_SIR_IOPM_2_2018022ZT150202_C001  CS_OFFL_SIR_IOPM_2_2018022ZT150202_C001  CS_OFFL_SIR_IOPM_2_2018022ZT150202_C001  CS_OFFL_SIR_IOPM_2_2018022ZT150202_C001  CS_OFFL_SIR_IOPM_2_2018022ZT16247_2018022ZT162632_C001  CS_OFFL_SIR_IOPM_2_2018022ZT16247_2018022ZT162632_C001  CS_OFFL_SIR_IOPM_2_2018022ZT16247_2018022ZT162632_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT164455_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT162632_C001  CS_OFFL_SIR_IOPM_2_2018022ZT16247_2018022ZT162632_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT162632_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT178040_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT178040_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175646_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175646_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_2018022ZT175685_C001  CS_OFFL_SIR_IOPM_2_2018022ZT164458_201802	CS_OFFL_SIR_IOPM_2_20180222T113701_20180222T114122_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T130822_2T13082_0001  Ce Range Averaging Status  The loc 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 loc 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 loc 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 loc 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.  CS_OFFL_SIR_IOPM_2_20180222T144140_20180222T14405_C001  Coean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T14479_C001  Coean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T15035_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T15030_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T16325_20180222T16632_C001  CS_OFFL_SIR_IOPM_2_20180222T16325_20180222T16632_C001  CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T16632_C001  CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T16445_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T17546_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T175645_20180222T175653_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T175645_20180222T175653_C001  CS_OFFL_SIR_IOPM_2_2018022T175646_20180222T175653_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T175653_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T175653_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T175653_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T175653_C001	CS_OFFL_SIR_IOPM_2_20180222T115514_20180222T120752_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T130826_20180222T130835_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.  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 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 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	CS_OFFL_SIR_IOPM_2_20180222T124525_20180222T130112_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T130841_20180222T130935_C001  CS_OFFL_SIR_IOPM_2_20180222T130841_20180222T134126_C001  CS_OFFL_SIR_IOPM_2_20180222T131401_20180222T134126_C001  CS_OFFL_SIR_IOPM_2_20180222T14440_20180222T144059_C001  CS_OFFL_SIR_IOPM_2_20180222T14440_20180222T144059_C001  CS_OFFL_SIR_IOPM_2_20180222T1444326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T15001_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T15001_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T162002_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162127162453  CS_OFFL_SIR_IOPM_2_20180222T162127162604_C001  CS_OFFL_SIR_IOPM_2_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T1626453_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_2018022T176804_C001  CS_OFFL_SIR_IOPM_2_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T1626453_C001  CS_OFFL_SIR_IOPM_2_20180222T16266458_C001  CS_OFFL_SIR_IOPM_2_20180222T162666_C0180222T175447_C001  CCEAR 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.  T	CS_OFFL_SIR_IOPM_2_20180222T130334_20180222T130820_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180222T131401_20180222T134126_C001  CS_OFFL_SIR_IOPM_2_20180222T131401_20180222T134126_C001  CS_OFFL_SIR_IOPM_2_20180222T141440_20180222T144059_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_2018022T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T145325_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T150325_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T1503_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T16203_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T16203_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T16203_C001  CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T164453_C001  CS_OFFL_SIR_IOPM_2_20180222T163458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T163458_20180222T172246_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_C001  CS_OFFL_SIR_IOPM_2_20180222T175525_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T1754456_20180222T17555_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T17555_C001  CS_OFFL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20180222T130826_20180222T130835_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T141440_20180222T144059_C001  CS_OFFL_SIR_IOPM_2_20180222T141440_20180222T144059_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T145325_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T15000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180222T130841_20180222T131000_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001  CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T1450535_C001  CS_OFFL_SIR_IOPM_2_20180222T145325_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T164453_C001  CS_OFFL_SIR_IOPM_2_20180222T1624458_20180222T164453_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T17004_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T17004_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T17004_C001  CS_OFFL_SIR_IOPM_2_20180222T175250_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T175250_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175947_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_2018022ZT175646_2018022ZT175953_C001  CS_OFFL_SIR_IOPM_2_2018022ZT18235_2018022ZT175947_C001  CS_OFFL_SIR_IOPM_2_2018022ZT175646_2018022ZT175947_C001  CS_OFFL_SIR_IOPM_2_2018022ZT175646_2018022ZT175947_C001  CS_OFFL_SIR_IOPM_2_2018022ZT175646_2018022ZT175953_C001  CS_OFFL_SIR_IOPM_2_2018022ZT18235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT18235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT18235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT18235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT181235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT181235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT181235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT181235_2018022ZT180700_C001  CS_OFFL_SIR_IOPM_2_2018022ZT181235_2018022ZT180700_C001  CS	CS_OFFL_SIR_IOPM_2_20180222T131401_20180222T134126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T145325_20180222T150535_C001  CS_OFFL_SIR_IOPM_2_20180222T151108_20180222T15103_C001  CS_OFFL_SIR_IOPM_2_20180222T151108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T151108_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162032_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162032_C001  CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T163249_20180222T163249_20180222T163249_20180222T163249_20180222T163249_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T175250_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T1755250_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180137_20180222T180107_C001  CS_OFFL_SIR_IOPM_2_20180222T181235_20180222T175545_C001  CCEAR 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	CS_OFFL_SIR_IOPM_2_20180222T141440_20180222T144059_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T15108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T151108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T151108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T16247_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162453_20180222T164453_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T164453_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_C001  CS_OFFL_SIR_IOPM_2_20180222T17212_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T1813507_C001  COPER 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	CS_OFFL_SIR_IOPM_2_20180222T144326_20180222T144719_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T151108_20180222T152103_C001  CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  CS_OFFL_SIR_IOPM_2_20180222T1624453_C001  CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T164453_C001  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_C001  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_C001  CS_OFFL_SIR_IOPM_2_20180222T17550_20180222T175447_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175112_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T175112_30180222T180700_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 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 be	CS_OFFL_SIR_IOPM_2_20180222T145325_20180222T150535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_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_20180222T163249_20180222T164453_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_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 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.	CS OFFL SIR IOPM 2 20180222T151108 20180222T152103 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001  Ice Range Averaging Status  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.  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_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
CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T164453_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.  CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_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 Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T164458_20180222T170804_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.  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_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 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
CS_OFFL_SIR_IOPM_2_20180222T172112_20180222T172246_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.  CS_OFFL_SIR_IOPM_2_20180222T175250_20180222T175447_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.  CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180700_C001  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.  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.			
CS_OFFL_SIR_IOPM_2_20180222T175250_20180222T175447_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180222T175646_20180222T175953_C001 CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180700_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.  CS_OFFL_SIR_IOPM_2_20180222T181235_20180222T183507_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_20180222T175446_20180222T175953_C001  CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T181235_20180222T183507_C001  Ocean Range Averaging Status  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_20180222T180137_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T180137_20180222T180700_C001  CS_OFFL_SIR_IOPM_2_20180222T181235_20180222T183507_C001  Ocean 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_IOPM_2_20160222118135_201602221183507_C001			records.
US OFFI SIR JOPM 2 201802221183235 201802221183507 COOL TOCKE RANGE AVERAGING STATUS		0 00	records.
	CS_OFFL_SIR_IOPM_2_20180222T181235_20180222T183507_C001	Ocean Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20180222T183753_20180222T184646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T185944_20180222T190300_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T191910_20180222T193854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T194104_20180222T194559_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T195132_20180222T202439_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T204810_20180222T211337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T212311_20180222T212504_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T213141_20180222T213917_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T213919_20180222T214732_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T215407_20180222T220159_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T221710_20180222T222011_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T222223_20180222T223810_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T224024_20180222T225513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T231052_20180222T232554_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T232733_20180222T233918_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180222T021941_20180222T022000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180222T144719_20180222T144724_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180222T162633_20180222T162637_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180222T175954_20180222T180011_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

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180222T000154_20180222T001644_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_20180222T010350_20180222T012802_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_20180222T013026_20180222T013856_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T014104_20180222T020656_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_20180222T023914_20180222T025004_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_20180222T025511_20180222T030654_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_20180222T031238_20180222T031655_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T031947_20180222T034706_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_20180222T041319_20180222T042854_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_20180222T043423_20180222T044559_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_20180222T045150_20180222T045735_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T045853_20180222T050516_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_20180222T053640_20180222T053727_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_20180222T055045_20180222T062531_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_20180222T063055_20180222T063606_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T063747_20180222T065725_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_20180222T072950_20180222T075800_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_20180222T075811_20180222T080355_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_20180222T080900_20180222T081054_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T081101_20180222T081514_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T081714_20180222T085304_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_20180222T085304_20180222T085340_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_20180222T085635_20180222T085731_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T091114_20180222T092312_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

	CVAIL Assertation Chatter Conner	The CM/I and Occas Augustics Status Flore have been act for one or
CS_OFFL_SIR_IOPM_2_20180222T092511_20180222T094302_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_20180222T094431_20180222T094953_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T100102_20180222T101327_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_20180222T101459_20180222T102725_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T102857_20180222T103157_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T105407_20180222T110429_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T110632_20180222T112201_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180222T112357_20180222T112851_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T113701_20180222T114122_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_20180222T115514_20180222T120752_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_20180222T124525_20180222T130112_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T130334_20180222T130820_C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
		records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T130826_20180222T130835_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T130841_20180222T131000_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180222T131401_20180222T134126_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_20180222T141440_20180222T144059_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_20180222T144326_20180222T144719_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T145325_20180222T150535_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_20180222T151108_20180222T152103_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T154353_20180222T162020_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T162147_20180222T162632_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180222T163249_20180222T164453_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_20180222T164458_20180222T170804_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_20180222T172112_20180222T172246_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_20180222T175250_20180222T175447_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_20180222T175646_20180222T175953_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20180222T180137 20180222T180700 C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T181235_20180222T183507_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T183753_20180222T184646_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180222T185944_20180222T190300_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_20180222T191910_20180222T193854_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_20180222T194104_20180222T194559_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T195132_20180222T202439_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_20180222T204810_20180222T211337_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T213141_20180222T213917_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T213919_20180222T214732_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T215407_20180222T220159_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180222T221710_20180222T222011_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180222T222223_20180222T223810_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_20180222T224024_20180222T225513_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_20180222T230203_20180222T230416_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180222T231052_20180222T232554_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180222T232733_20180222T233918_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20180222T021941_20180222T022000_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPN_2_20180222T144719_20180222T144724_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180222T162633_20180222T162637_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180222T175954_20180222T180011_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.

## 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:

## 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_220180222T004420_20180222T013354_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180222T135808_20180222T144743_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180222T212437_20180222T221416_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.

Number of products with errors:

Dundring	Test Failed	Description
Product	l est Falled	Description Clarks Flanks have a first first flanks have a first f
CS_OFFL_SIR_IOP_220180221T235441_20180222T004420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T004420_20180222T013354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T013354_20180222T022333_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_220180222T022333_20180222T031308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T031308_20180222T040247_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_220180222T040247_20180222T045221_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_220180222T045221_20180222T054201_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_220180222T054201_20180222T063135_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T063135_20180222T072114_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_220180222T072114_20180222T081048_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_220180222T081048_20180222T090028_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_220180222T090028_20180222T095002_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_220180222T095002_20180222T103941_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_220180222T103941_20180222T112915_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_220180222T112915_20180222T121855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T121855_20180222T130829_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_220180222T130829_20180222T135808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T135808_20180222T144743_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_220180222T144743_20180222T153722_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T153722_20180222T162656_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_220180222T162656_20180222T171636_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T171636_20180222T180610_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_220180222T180610_20180222T185549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T185549_20180222T194523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180222T194523_20180222T203503_C001	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.
	The Ocean and Ice Range Averaging Status Flags have 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 Ocean Range Averaging Status Ocean Range Averaging Status, Ice Range Averaging Status

## 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180221T235441_20180222T004420_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_20180222T004420_20180222T013354_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_20180222T013354_20180222T022333_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_20180222T022333_20180222T031308_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_20180222T031308_20180222T040247_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_20180222T040247_20180222T045221_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_20180222T045221_20180222T054201_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_20180222T054201_20180222T063135_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_20180222T063135_20180222T072114_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_20180222T072114_20180222T081048_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_20180222T081048_20180222T090028_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_20180222T090028_20180222T095002_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_220180222T095002_20180222T103941_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_20180222T103941_20180222T112915_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_20180222T112915_20180222T121855_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_20180222T121855_20180222T130829_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_220180222T130829_20180222T135808_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_220180222T135808_20180222T144743_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_20180222T144743_20180222T153722_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_220180222T153722_20180222T162656_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_20180222T162656_20180222T171636_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_220180222T171636_20180222T180610_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_20180222T180610_20180222T185549_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_220180222T185549_20180222T194523_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_20180222T194523_20180222T203503_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_20180222T203503_20180222T212437_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_20180222T212437_20180222T221416_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\_\_20180222T221416\_20180222T230350\_C001

CS\_OFFL\_SIR\_IOP\_2\_\_20180222T230350\_20180222T235330\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status 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.

The SWH, Ocean and Ice 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.

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180222T004420_20180222T013354_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T013354_20180222T022333_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T022333_20180222T031308_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T031308_20180222T040247_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T040247_20180222T045221_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T045221_20180222T054201_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T054201_20180222T063135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T063135_20180222T072114_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T072114_20180222T081048_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T081048_20180222T090028_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T090028_20180222T095002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T095002_20180222T103941_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T103941_20180222T112915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T112915_20180222T121855_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T121855_20180222T130829_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T130829_20180222T135808_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T135808_20180222T144743_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T144743_20180222T153722_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T153722_20180222T162656_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T162656_20180222T171636_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T171636_20180222T180610_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T180610_20180222T185549_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T185549_20180222T194523_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T194523_20180222T203503_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T203503_20180222T212437_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T212437_20180222T221416_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T221416_20180222T230350_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T230350_20180222T235330_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180222T235330_20180223T004304_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.