



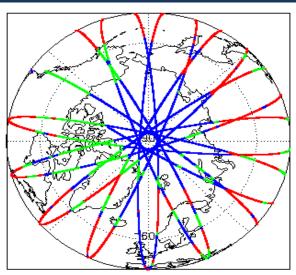
## 1. Overview

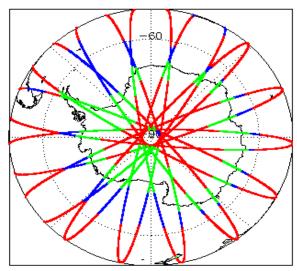
Report Production:	29-May-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

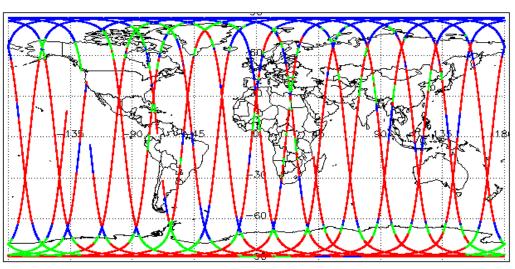
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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		
25-May-2018		
26-May-2018	None	
27-May-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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180526T004649_20180526T005027_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180526T074223_20180526T074529_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

12

Product	Test Failed	Description
CS_OFFL_SIR_IOPN1B_20180526T070820_20180526T071429_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180526T130734_20180526T130939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180526T211202_20180526T211651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180526T224645_20180526T224703_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T024845_20180526T025321_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T043624_20180526T044339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T074652_20180526T074909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T102957_20180526T103205_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T111730_20180526T111841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T143637_20180526T143658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T161510_20180526T161909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180526T210509_20180526T211201_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180526T004648_20180526T005027_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_20180526T074223_20180526T074529_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.

Company   Comp	Product	Test Failed	Description
Description			The Ocean Range Averaging Status Flag has been set for one or more
Description	CS_OFFL_SIR_IOPM_2_20180526T002927_20180526T003504_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
Comparison   Com	CS_OFFL_SIR_IOPM_2_20180526T003709_20180526T004247_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Description   Temporary 2 considerational   Content	CS_OFFL_SIR_IOPM_2_20180526T012849_20180526T020211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Dec. Comp. 3 (1) Orang. 2 strateotrational, 2018 (2018) (2	CS OFFL SIR IOPM 2 20180526T020831 20180526T021342 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
DOLOFF Jan John J. 201900070120120120120120120120120120120120120120	CS OFFL SIR IOPM 2 20180526T021649 20180526T023526 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
COLUMNIA DE L'ANDRE DE			The Ocean Range Averaging Status Flag has been set for one or more
COLORS BRIGHT DATA _ PRESIDENT EXECUTION STATES AND COLOR RANGE AND AND COLOR RA	CS OFFL SIR IOPM 2 20180526T034836 20180526T035247 C001		The Ice Range Averaging Status Flag has been set for one or more
Co. CHEL SRI (1994 2, 201000001513214) 271000001513100 Co. CO. CO. CHEL SRI (1994 2, 20100000151312) 2710000015100000000000000000000000000000			The Ocean Range Averaging Status Flag has been set for one or more
CS_CPTI_SR_CPM_2_0100520T04072_0100520T04073_0.001  CS_CPTI_SR_CPM_2_0100520T04072_0100520T04072_0.001  CS_CPTI_SR_CPM_2_0100520T04072_0100520T04072_0100520T04072_0.001  CS_CPTI_SR_CPM_2_0100520T04072_0100520T04072_0100520T04072_0100052T04072_0100520T040			The Ocean Range Averaging Status Flag has been set for one or more
CB_OFF_SRI_OFM_2_0105000154000_0000000000000000000000000			The Ice Range Averaging Status Flag has been set for one or more
Co. CHEL SRI, COMP 20190000100240_20180000100240_C001  Co. CHEL SRI, COMP 20190000100240_C001  Co. CHEL SRI, COMP 2019000100240_C00100240_C001  Co. CHEL SRI, COMP 20190000100240_C0			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFF_SR_OPM_2_possesstroscarp_situscontrollang_cold  CS_OFF_SR_O			The Ocean Range Averaging Status Flag has been set for one or more
CB_OPT_SIR_IOPM_2_D180028T003812_D180028T003810_C001  CG_OPT_SIR_IOPM_2_D180028T003812_D180028T003810_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T003810_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T003810_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T003810_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T00380_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T00380_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T00380_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T00380_C001  CG_OPT_SIR_IOPM_2_D180028T00382_D180028T00380_C001  CG_OPT_SIR_IOPM_2_D180028T00380_C001  CG_OPT_SIR_IOPM_2_D180028T10380_C010028C0100380_C001  CG_OPT_SIR_IOPM_2_D180028T10380_C010028C0100380_C001  CG_OPT_SIR_IOPM_2_D180028T10380_C010028C010			
CS_OFF_SR_OPM_2_cristocations_in_orresponsible_continue_c			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_OPM_2_2018002071004279_0100104279_0101  CS_OFFL_SIR_OPM_2_2018002071004279_0100104279_0101  CS_OFFL_SIR_OPM_2_2018002071004279_0100104279_0101  CS_OFFL_SIR_OPM_2_2018002071004279_010000071004279_01010  CS_OFFL_SIR_OPM_2_2018002071004279_010000071004279_01010  CS_OFFL_SIR_OPM_2_2018002071004279_0100000710040_0101  CS_OFFL_SIR_OPM_2_2018002071004279_01000007100400001  CS_OFFL_SIR_OPM_2_2018002071004279_0100007100400001  CS_OFFL_SIR_OPM_2_2018002071004279_0100007100400001  CS_OFFL_SIR_OPM_2_201800207100400400001  CS_OFFL_SIR_OPM_2_20180020710040040000000000000000000000000000			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_OPM_2_201800267109447_201800267109447_001800267070581_0001  CS_OFFL_SIR_OPM_2_201800267109447_201800267070742_001800267070581_0001  CS_OFFL_SIR_OPM_2_201800267070742_001800267070581_0001  CS_OFFL_SIR_OPM_2_201800267070742_001802670707819_0001  CS_OFFL_SIR_OPM_2_201800267070742_001802670707819_0001  CS_OFFL_SIR_OPM_2_201800267070742_001802670707819_0001  CS_OFFL_SIR_OPM_2_201800267070742_001802670707819_0001  CS_OFFL_SIR_OPM_2_2018002670707819_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670707812_0001  CS_OFFL_SIR_OPM_2_2018002670708179_0001  CS_OFFL_SIR_OPM_2_2018002670708179_0001  CS_OFFL_SIR_OPM_2_2018002670708179_0001  CS_OFFL_SIR_OPM_2_2018002670708179_0001  CS_OFFL_SIR_OPM_2_2018002670708179_0001  CS_OFFL_SIR_OPM_2_2018002670708179_0001  CS_OFFL_SIR_OPM_2_201800267008217_00180267010479_0001  CS_OFFL_SIR_OPM_2_201800267008217_001800267010479_0001  CS_OFFL_SIR_OPM_2_201800267008217_001800267010479_0001  CS_OFFL_SIR_OPM_2_201800267008217_001800267010479_0001  CS_OFFL_SIR_OPM_2_201800267008217_001800267010479_0001  CS_OFFL_SIR_OPM_2_201800267008217_001800267010479_0001  CS_OFFL_SIR_OPM_2_201800267010520_00180267010479_0001  CS_OFFL_SIR_OPM_2_201800267010520_00180267010479_0001  CS_OFFL_SIR_OPM_2_201800267010520_00180267010479_0001  CS_OFFL_SIR_OPM_2_20180026701020_00180267010479_0001  CS_OFFL_			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_OPM2_201900201103020_2019002011030450_0001  CS_OFFL_SIR_OPM2_201900201107135_201900201707039_0001  CS_OFFL_SIR_OPM2_201900201707149_00190201707049_0001  CS_OFFL_SIR_OPM2_201900201707149_00190201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_20190020170735_001900201707049_0001  CS_OFFL_SIR_OPM2_201900201700407_001900201704050_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201704050_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201704050_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201704050_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201704050_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201704050_0011  CS_OFFL_SIR_OPM2_201900201700407_00190020170040_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201710260_0011  CS_OFFL_SIR_OPM2_201900201700407_00190020170040_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_001900201700400_0011  CS_OFFL_SIR_OPM2_201900201700407_00190020170040000170040000170040000100400000000			
CS_OFFL_SIR_JOPM_2_20180526710315_20180526710316_C001  CR_Range Averaging Status  CR_OFFL_SIR_JOPM_2_201805267070314_201805267070816_C001  CR_OFFL_SIR_JOPM_2_201805267070314_20180526707082_C001  CR_OFFL_SIR_JOPM_2_201805267070316_20180526707082_C001  CR_OFFL_SIR_JOPM_2_201805267070316_20180526707082_C001  CR_OFFL_SIR_JOPM_2_201805267070316_20180526707206_C001  CR_OFFL_SIR_JOPM_2_201805267070316_20180526707206_C001  CR_OFFL_SIR_JOPM_2_201805267070316_20180526707206_C001  CR_OFFL_SIR_JOPM_2_201805267070316_20180526707206_C001  CR_OFFL_SIR_JOPM_2_20180526706316_201805267040726_C001  CR_OFFL_SIR_JOPM_2_20180526706316_201805267040726_C001  CR_OFFL_SIR_JOPM_2_20180526706310_C001  CR_OFFL_SIR_JOPM_2_20180526706310_C00180526710406_C001  CR_OFFL_SIR_JOPM_2_20180526706310_C001805267107036_C001  CR_OFFL_SIR_JOPM_2_20180526706310_C001805267107036_C001  CR_OFFL_SIR_JOPM_2_201805267063106_C001805267107036_C001  CR_OFFL_SIR_JOPM_2_201805267063106_C001805267107036_C00180526710			
CS_OFFL_SIR_JOPM_2_201805267107429_20180526707466_0001  Ocean Range Averaging Status  The Decan Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_20180526707462_20180526707466_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_20180526707351_201805267073655_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267062158_201805267037656_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267062158_201805267063765_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267062157_201805267062469_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_20180526706250_201805267102467_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267101900_201805267102467_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267101900_201805267102467_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267101900_201805267102467_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267101900_201805267102467_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267101900_201805267102467_0001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201805267101900_201805267104450_001  Ocean Range Averaging Statu			records.
CS_OFFL_SIR_IOPM_2_20180526T07459_20180526T07365_C001  Ocean Range Averaging Status Flag has been set for one or more roots.  CS_OFFL_SIR_IOPM_2_20180526T07351_20180526T07355_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more roots.  CS_OFFL_SIR_IOPM_2_20180526T084156_20180526T084756_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more roots.  CS_OFFL_SIR_IOPM_2_20180526T084126_20180526T08456_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T084126_20180526T08456_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T084126_20180526T104350_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T08428_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T08428_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 be			
CS_OFFL_SIR_IOPM_2_201805267073561_20180526707450_C001  CS_OFFL_SIR_IOPM_2_201805267073616_20180526707420_C001  CS_OFFL_SIR_IOPM_2_201805267084156_201805267084756_C001  CS_OFFL_SIR_IOPM_2_201805267084156_201805267084756_C001  CS_OFFL_SIR_IOPM_2_201805267084156_201805267084756_C001  CS_OFFL_SIR_IOPM_2_201805267084156_201805267084756_C001  CS_OFFL_SIR_IOPM_2_201805267084157_201805267084756_C001  CS_OFFL_SIR_IOPM_2_201805267084157_201805287084556_C001  CS_OFFL_SIR_IOPM_2_201805287085232_201805287092694_C001  CS_OFFL_SIR_IOPM_2_201805287085232_201805287092694_C001  CS_OFFL_SIR_IOPM_2_201805287108523_201805287109453_C001  CS_OFFL_SIR_IOPM_2_20180528710850_C01805287109450_C001  CS_OFFL_SIR_IOPM_2_20180528710850_C01805287109450_C001  CS_OFFL_SIR_IOPM_2_20180528710850_C01805287109450_C001  CS_OFFL_SIR_IOPM_2_20180528710850_C01805287109450_C001  CS_OFFL_SIR_IOPM_2_201805287110850_201805287109450_C001  CS_OFFL_SIR_IOPM_2_201805287110850_2018052871109450_C001  CS_OFFL_SIR_IOPM_2_201805287110940_C01805287110940_C001  CS_OFFL_SIR_IOPM_2_201805287110940_C01805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_2018052871110950_201805287113580_C001  CS_OFFL_SIR_IOPM_2_201805287113580_C001  CS_OFFL_SIR_			
CS_OFFL_SIR_JOPM_2_20180526T073818_20180526T04556_C001  CS_OFFL_SIR_JOPM_2_20180526T082166_20180526T085766_C001  CS_OFFL_SIR_JOPM_2_20180526T084126_20180526T084756_C001  CS_OFFL_SIR_JOPM_2_20180526T084126_20180526T084756_C001  CS_OFFL_SIR_JOPM_2_20180526T084126_20180526T084756_C001  CS_OFFL_SIR_JOPM_2_20180526T084017_20180526T084756_C001  CS_OFFL_SIR_JOPM_2_20180526T085233_20180526T092649_C001  CS_OFFL_SIR_JOPM_2_20180526T085233_20180526T092649_C001  CS_OFFL_SIR_JOPM_2_20180526T085233_20180526T092649_C001  CS_OFFL_SIR_JOPM_2_20180526T085233_20180526T092649_C001  CS_OFFL_SIR_JOPM_2_20180526T085233_20180526T092649_C001  CS_OFFL_SIR_JOPM_2_20180526T09502_0180526T104572_C001  CS_OFFL_SIR_JOPM_2_20180526T09502_0180526T104572_C001  CS_OFFL_SIR_JOPM_2_20180526T102500_20180526T104572_C001  CS_OFFL_SIR_JOPM_2_20180526T102500_20180526T104592_C001  CS_OFFL_SIR_JOPM_2_20180526T102500_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T112945_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T104593_C001  CS_OFFL_SIR_JOPM_2_20180526T13930_20180526T164533_C001  CS_OFFL_SIR_JOPM_2_20180526T15390_20180526T165333_C001  CS_OFFL_SI			records.
CS_OFFL_SIR_JOPM_2_201805287104318_201805287108458_C001  CS_OFFL_SIR_JOPM_2_20180528708418_20180528708458_C001  CS_OFFL_SIR_JOPM_2_20180528708418_20180528708458_C001  CS_OFFL_SIR_JOPM_2_20180528708418_20180528708458_C001  CS_OFFL_SIR_JOPM_2_20180528708418_20180528708458_C001  CS_OFFL_SIR_JOPM_2_20180528708418_20180528708458_C001  CS_OFFL_SIR_JOPM_2_20180528708418_201805287104573_C001  CS_OFFL_SIR_JOPM_2_20180528710950_201805287104570_C001  CS_OFFL_SIR_JOPM_2_20180528710950_201805287104570_C001  CS_OFFL_SIR_JOPM_2_20180528710305_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287104500_C001  CS_OFFL_SIR_JOPM_2_201805287113050_2018052871130400_C001  CS_OFFL_SIR_JOPM_2_201805287113050_2018052871130400_C001  CS_OFFL_SIR_JOPM_2_201805287113050_2018052871130400_C001  CS_OFFL_SIR_JOPM_2_201805287113050_201805287114400_C001  CS_OFFL_SIR_JOPM_2_201805287143050_20180528714400_C001  CS_OFFL_SIR_JOPM_2_201805287143050_20180528714400_C001  CS_OFFL_SIR_JOPM_2_201805287143050_20180528714400_C001  CS_OFFL_SIR_JOPM_2_201805287143050_20180528714400_C001  CS_OFFL_SIR_JOPM_2_201805287143050_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287143050_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_20180528714400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_2018052871400_C001  CCS_OFFL_SIR_JOPM_2_201805287140500_20180528714000000000000000000000			
CS_OFFL_SIR_IOPM_2_20180520T084126_20180520T08455_C001  CS_OFFL_SIR_IOPM_2_20180520T084517_20180520T08249_C001  CS_OFFL_SIR_IOPM_2_20180520T08233_20180520T092649_C001  CS_OFFL_SIR_IOPM_2_20180520T08233_20180520T092649_C001  CS_OFFL_SIR_IOPM_2_20180520T01802_20180520T10733_C001  CS_OFFL_SIR_IOPM_2_20180520T101802_20180520T102457_C001  CS_OFFL_SIR_IOPM_2_20180520T101802_20180520T102457_C001  CS_OFFL_SIR_IOPM_2_20180520T102500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T102500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T102500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T102500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T102500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T102500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T1120500_20180520T102500_C001  CS_OFFL_SIR_IOPM_2_20180520T120500_C001  CS_OFFL_SIR_IOPM_2_20180520T120500_C001  CS_OFFL_SIR_IOPM_2_20180520T120500_C001  CS_OFFL_SIR_IOPM_2_20180520T120500_C001  CS_OFFL_SIR_IOPM_2_20180520T103010_C001  CS_OFFL_SIR_IOPM_2_20180520T103010_C001  CS_OFFL_SIR_IOPM_2_20180520T103010_C001  CS_OFFL_SIR_IOPM_2_20180520T103010_C001  CS_OFFL_SIR_IOPM_2_20180520T103010_C001  CS_OFFL_SIR_IOPM_2_20180520T103010_C00100000000000000000000000000000			records.
CS_OFFL_SIR_IOPM_2_20180526T196272_20180526T196240_20180526T196240_20180526T196240_20180526T196240_20180526T196240_20180526T196260_20180526T19			
CS_OFFL_SIR_IOPM_2_20180526T108253_20180526T103204_COUNT CS_OFFL_SIR_IOPM_2_20180526T10526T102500_COUNT CS_OFFL_SIR_IOPM_2_20180526T10526T102500_COUNT CS_OFFL_SIR_IOPM_2_20180526T10526T102500_COUNT CS_OFFL_SIR_IOPM_2_20180526T10526T102500_COUNT CS_OFFL_SIR_IOPM_2_20180526T105		0 0 0	
CS_OFFL_SIR_IOPM_2_20180526T1039521_02180526T103504_000526T10457_0001  CS_OFFL_SIR_IOPM_2_20180526T103502_0180526T103509_0001  CS_OFFL_SIR_IOPM_2_20180526T103502_0180526T103509_0001  CS_OFFL_SIR_IOPM_2_20180526T113392_0180526T103509_0001  CS_OFFL_SIR_IOPM_2_20180526T113392_0180526T103509_0001  CS_OFFL_SIR_IOPM_2_20180526T113392_0180526T103509_0001  CS_OFFL_SIR_IOPM_2_20180526T113392_0180526T112786_0001  CS_OFFL_SIR_IOPM_2_20180526T113392_0180526T112786_0001  CS_OFFL_SIR_IOPM_2_20180526T133939_00180526T113450_0001  CS_OFFL_SIR_IOPM_2_20180526T133939_00180526T134504_00018048014392_00180526T134504_00018048014392_00180526T134504_00018048014392_00180526T134504_00018048014392_00180526T134504_00018048014392_00180526T134504_00018048014392_00180526T134504_0001804801480148014801480148014801480148			records.
CS_OFF_SIR_OPM_2_20180326110350_20180326710250_20180326710250_20180326710350_2018032671350_201803267180326710380_201803267180326710380_2018032671350_2018032671350_2018032671350_2018032671350_2018032671350_2018032671350_20180326		0 00	records.
CS_OFF_SIR_IOPM_2_20180526T102500_20180526T104308_C001  CS_OFF_SIR_IOPM_2_20180526T103205_20180526T104308_C001  CS_OFF_SIR_IOPM_2_20180526T113336_20180526T120746_C001  CS_OFF_SIR_IOPM_2_20180526T113336_20180526T120746_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T133610_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T133610_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T134385_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T134336_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T134336_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T134336_C001  CS_OFF_SIR_IOPM_2_20180526T133316_20180526T141243_C001  CS_OFF_SIR_IOPM_2_20180526T143505_20180526T143656_20180526T143656_C0180526T1336T0_C001  CS_OFF_SIR_IOPM_2_20180526T14505_20180526T1420746_C001  CS_OFF_SIR_IOPM_2_20180526T14505_C0180526T1420746_C001  CS_OFF_SIR_IOPM_2_20180526T14505_C0180526T1440433_C001  CS_OFF_SIR_IOPM_2_20180526T14506_20180526T1440433_C001  CS_OFF_SIR_IOPM_2_20180526T14506_20180526T14406_C001  CS_OFF_SIR_IOPM_2_20180526T14506_20180526T14406_C001  CS_OFF_SIR_IOPM_2_20180526T14506_20180526T150140_C001  CS_OFF_SIR_IOPM_2_20180526T150327_20180526T153336_C001  CS_OFF_SIR_IOPM_2_20180526T150327_20180526T153336_C001  CS_OFF_SIR_IOPM_2_20180526T150327_20180526T153336_C001  CS_OFF_SIR_IOPM_2_20180526T150327_20180526T153336_C001  CS_OFF_SIR_IOPM_2_20180526T153366_20180526T153336_C001  CS_OFF_SIR_IOPM_2_20180526T153366_20180526T153336_C001  CS_OFF_SIR_IOPM_2_20180526T153366_20180526T153337_C001  CS_OFF_SIR_IOPM_2_20180526T153366_20180526T160122_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			
CS_OFFL_SIR_IOPM_2_20180526T103205_20180526T119286_2001  Coean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T119286_20180526T119728_0001  CS_OFFL_SIR_IOPM_2_20180526T119355_20180526T129726_0001  CS_OFFL_SIR_IOPM_2_20180526T119332_0180526T124525_0001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T124525_0001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T139310_0001  CS_OFFL_SIR_IOPM_2_20180526T139916_20180526T139310_0001  CS_OFFL_SIR_IOPM_2_20180526T139916_20180526T1343436_0001  CS_OFFL_SIR_IOPM_2_20180526T139916_20180526T1343436_0001  CS_OFFL_SIR_IOPM_2_20180526T139916_20180526T141243_0001  CS_OFFL_SIR_IOPM_2_20180526T14530_20180526T141243_0001  CS_OFFL_SIR_IOPM_2_20180526T14500_20180526T141530_00180526T141433_0001  CS_OFFL_SIR_IOPM_2_20180526T145002_20180526T141430_001  CS_OFFL_SIR_IOPM_2_20180526T145002_20180526T145000000000000000000000000000000000000		0 0 0	records.
CS_OFFL_SIR_IOPM_2_20180526T112946_20180526T112726_C001  CS_OFFL_SIR_IOPM_2_20180526T11294525_C001  CS_OFFL_SIR_IOPM_2_20180526T11294525_C001  CS_OFFL_SIR_IOPM_2_20180526T121133_20180526T124525_C001  CS_OFFL_SIR_IOPM_2_20180526T121133_20180526T124525_C001  CS_OFFL_SIR_IOPM_2_20180526T121133_20180526T134525_C001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T134525_C001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T134525_C001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T134536_C001  CS_OFFL_SIR_IOPM_2_20180526T133916_C0180526T134436_C001  CS_OFFL_SIR_IOPM_2_20180526T135109_20180526T134136_C001  CS_OFFL_SIR_IOPM_2_20180526T135109_20180526T14243_C001  CS_OFFL_SIR_IOPM_2_20180526T145350_20180526T14243_C001  CS_OFFL_SIR_IOPM_2_20180526T145858_20180526T14423_C001  CS_OFFL_SIR_IOPM_2_20180526T145858_20180526T14400_C001  CS_OFFL_SIR_IOPM_2_20180526T145858_20180526T14400_C001  CS_OFFL_SIR_IOPM_2_20180526T15952_20180526T1540_C001  CS_OFFL_SIR_IOPM_2_20180526T15952_20180526T1540_C001  CS_OFFL_SIR_IOPM_2_20180526T15952_20180526T155037_C001  CS_OFFL_SIR_IOPM_2_20180526T15952_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T159535_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T159537_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T159537_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T15954_2000160526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T15954_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526			
CS_OFFL_SIR_IOPM_2_20180526T115935_20180526T124525_C001  Cs_OFFL_SIR_IOPM_2_20180526T115935_20180526T124525_C001  Cs_OFFL_SIR_IOPM_2_20180526T121133_20180526T124525_C001  Cs_OFFL_SIR_IOPM_2_20180526T132924_20180526T133810_C001  Cs_OFFL_SIR_IOPM_2_20180526T133916_20180526T133816_C001  Cs_OFFL_SIR_IOPM_2_20180526T133916_20180526T133816_C001  Cs_OFFL_SIR_IOPM_2_20180526T133916_20180526T134362_C001  Cs_OFFL_SIR_IOPM_2_20180526T133916_20180526T134362_C001  Cs_OFFL_SIR_IOPM_2_20180526T141530_20180526T142432_C001  Cs_OFFL_SIR_IOPM_2_20180526T141530_20180526T142433_C001  Cs_OFFL_SIR_IOPM_2_20180526T141530_20180526T142433_C001  Cs_OFFL_SIR_IOPM_2_20180526T141530_20180526T144100_C001  Cs_OFFL_SIR_IOPM_2_20180526T145054_20180526T144100_C001  Cs_OFFL_SIR_IOPM_2_20180526T145054_20180526T1541400_C001  Cs_OFFL_SIR_IOPM_2_20180526T150527_20180526T151450_C001  Cs_OFFL_SIR_IOPM_2_20180526T150527_20180526T151450_C001  Cs_OFFL_SIR_IOPM_2_20180526T150527_20180526T151500_C001  Cs_OFFL_SIR_IOPM_2_20180526T150527_20180526T15050000000000000000000000000000000000			records.
CS_OFFL_SIR_IOPM_2_20180526T133294_20180526T133610_C001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T133610_C001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T133610_C001  CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T133610_C001  CS_OFFL_SIR_IOPM_2_20180526T133916_20180526T134435_C001  CS_OFFL_SIR_IOPM_2_20180526T135199_20180526T141243_C001  CS_OFFL_SIR_IOPM_2_20180526T135199_20180526T141243_C001  CS_OFFL_SIR_IOPM_2_20180526T14550_20180526T142433_C001  CS_OFFL_SIR_IOPM_2_20180526T14550_20180526T1444100_C001  CS_OFFL_SIR_IOPM_2_20180526T145658_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T1515357_C001  CS_OFFL_SIR_IOPM_2_20180526T150529_20180526T150357_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150350_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T150340_20180526T1703440_C001  CS_OFFL_SIR_IOPM_2_20180526T170345_20180526T1733440_C001  CS_OFFL_SIR_IOPM_2_20180526T170345_20180526T1703440_C001  CS_OFFL_SIR_IOPM_2_20180526T170345_20180526T1703440_C001  CS_OFFL_SIR_IOPM_2_20180526T1703440_C001  CS_OFFL_SIR_IOPM_2_2018052			records.
CS_OFFL_SIR_IOPM_2_20180526T132924_20180526T133410_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_20180526T135109_20180526T141243_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_20180526T141530_20180526T142433_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T142433_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T144100_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T150140_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T150140_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T1515450_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T152335_C001  CR_OFFL_SIR_IOPM_2_20180526T153029_20180526T152335_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.  CS_OFFL_SIR_IOPM_2_20180526T17045_20180526T173842_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T175442_201805			records.
CS_OFFL_SIR_IOPM_2_20180526T133916_20180526T134436_C001  Cean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T135109_20180526T14243_C001  Cean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T1435109_20180526T142433_C001  Cean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T142433_C001  Cean 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.  CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T151952_20180526T152335_C001  CS_OFFL_SIR_IOPM_2_20180526T153029_20180526T152335_C001  CS_OFFL_SIR_IOPM_2_20180526T153029_20180526T155337_C001  CS_OFFL_SIR_IOPM_2_20180526T153029_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T163546_20180526T160222_C001  CCean 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			records.
CS_OFFL_SIR_IOPM_2_20180526T135109_20180526T141243_C001  CS_OFFL_SIR_IOPM_2_20180526T141530_20180526T142433_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 Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one			records.
CS_OFFL_SIR_IOPM_2_20180526T141530_20180526T142433_C001  CS_OFFL_SIR_IOPM_2_20180526T141530_20180526T142433_C001  CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T142400_C001  CS_OFFL_SIR_IOPM_2_20180526T143654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T152335_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.  CS_OFFL_SIR_IOPM_2_20180526T153537_C001  Coean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  Coean 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		Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T144100_C001  CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T1513535_C001  CS_OFFL_SIR_IOPM_2_20180526T150329_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T163335_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T170945_20180526T172702_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T180181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T180181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T180181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T180181547_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T1801847_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T1801847_C001  CCS_OFFL_SIR_IOPM_2_2			records.
CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T150450_C001  CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T15450_C001  CS_OFFL_SIR_IOPM_2_20180526T151952_20180526T152335_C001  CS_OFFL_SIR_IOPM_2_20180526T151952_20180526T152335_C001  CS_OFFL_SIR_IOPM_2_20180526T153039_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T153039_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T15353546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T170945_20180526T172702_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_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 records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging			records.
CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Lee Range Averaging 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_20180526T153029_20180526T153357_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T160114_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180526T170945_20180526T172702_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 record			records.
CS_OFFL_SIR_IOPM_2_20180526T153952_20180526T153357_C001  CS_OFFL_SIR_IOPM_2_20180526T153029_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T153029_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T1770945_20180526T172702_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T182007_20180526T183342_C001  CS_OFFL_SIR_IOPM_2_20180526T182007_20180526T183342_C001  CS_OFFL_SIR_IOPM_2_20180526T182007_20180526T183342_C001  CS_OFFL_SIR_IOPM_2_20180526T182007_20180526T183342_C001  CC_CORR_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.	CS_OFFL_SIR_IOPM_2_20180526T145654_20180526T150140_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T153029_20180526T153537_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T177045_20180526T1772702_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CCG_OFFL_SIR_IOPM_2_20180526T180021_20180526T183442_C001  CCG_OFFL_SIR_IOPM_2_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_201	CS_OFFL_SIR_IOPM_2_20180526T150327_20180526T151450_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T170945_20180526T172702_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T183342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T183342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T183342_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T183342_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180021_20180526T180	CS_OFFL_SIR_IOPM_2_20180526T151952_20180526T152335_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001  CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_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_20180526T173142_20180526T173842_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_20180526T175442_20180526T175839_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.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging 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_20180526T153029_20180526T153537_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T173042_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T18342_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T183342_C001  CCS_OFFL_SIR_IOPM_2_20180526T180021_20180526T183342_C001  CCS_OFFL_SIR_IOPM_2_20180526T182007_20180526T183342_C001  CCS_OFFL_SIR_IOPM_2_20180526T182007_20180526T182007_20180526T182007_20180526T182007_20180526T182007_2018	CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001  CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T18207_20180526T183342_C001  CS_OFFL_SIR_IOPM_2_20180526T18207_20180526T18207_20180526T18207_20180526T18207_20180526T18207_20180526T18207_20180526T18207_20180526T18207	CS_OFFL_SIR_IOPM_2_20180526T162011_20180526T165114_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T175839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T185839_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_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.	CS_OFFL_SIR_IOPM_2_20180526T170945_20180526T172702_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001  CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_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 or more records.  The Ocean Range Averaging Status Flag has been set for one or more or more or more or more records.	CS_OFFL_SIR_IOPM_2_20180526T173142_20180526T173842_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201805261180021_201805261181547_C001  Ocean Range Averaging Status records.  The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPM_2_20180526T175442_20180526T175839_C001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPM_2_20180526T182207_20180526T183342_C001	Ocean Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20180526T183934_20180526T184155_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T184228_20180526T184649_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T184911_20180526T190330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T190641_20180526T192041_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T194204_20180526T194914_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T195037_20180526T195525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T195826_20180526T201412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T201721_20180526T202558_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T202830_20180526T205053_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T211915_20180526T215308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T215923_20180526T220356_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T220756_20180526T223230_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T230508_20180526T231542_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T232119_20180526T233202_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T233840_20180526T234432_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T234618_20180527T000726_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180526T120411_20180526T120413_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180526T144100_20180526T144118_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180526T010328_20180526T010405_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180526T065901_20180526T065949_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180526T192847_20180526T192938_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

## 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180525T235020_20180526T002245_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_20180526T002927_20180526T003504_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T003709_20180526T004247_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_20180526T012849_20180526T020211_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_20180526T020831_20180526T021342_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T021649_20180526T023526_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_20180526T030720_20180526T034043_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_20180526T034836_20180526T035247_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T035656_20180526T042327_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_20180526T042348_20180526T043109_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_20180526T044707_20180526T045808_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_20180526T050249_20180526T052013_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_20180526T052210_20180526T052728_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T053834_20180526T055103_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_20180526T055316_20180526T060715_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_20180526T060728_20180526T061036_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_20180526T063239_20180526T064210_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_20180526T064447_20180526T065900_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_20180526T070135_20180526T070639_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T070704_20180526T070819_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T073816_20180526T074206_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_20180526T082156_20180526T083756_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

22. 0551. 010.10014.0.00		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180526T084126_20180526T084556_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T084617_20180526T084751_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T085233_20180526T092649_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_20180526T095210_20180526T101733_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_20180526T101950_20180526T102457_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T102500_20180526T102509_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180526T103205_20180526T104308_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_20180526T112946_20180526T115728_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180526T115935_20180526T120746_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180526T121133_20180526T124525_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180526T132655_20180526T132759_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_20180526T132924_20180526T133610_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_20180526T133916_20180526T134436_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T135109_20180526T141243_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_20180526T141530_20180526T142433_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180526T143658_20180526T144100_C001	SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20180526T144814 20180526T145325 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_20180526T150327_20180526T151450_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180526T151952_20180526T152335_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180526T153546_20180526T160222_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_20180526T162011_20180526T165114_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_20180526T170945_20180526T172702_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_20180526T173142_20180526T173842_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_20180526T175442_20180526T175839_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T180021_20180526T181547_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 20180526T182207 20180526T183342 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180526T184228_20180526T184649_C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180526T184911_20180526T190330_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180526T190641_20180526T192041_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_20180526T194204_20180526T194914_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_20180526T195037_20180526T195525_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180526T195826_20180526T201412_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_20180526T201721_20180526T202558_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T202830_20180526T205053_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_20180526T211915_20180526T215308_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_20180526T215923_20180526T220356_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180526T220756_20180526T223230_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_20180526T230508_20180526T231542_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180526T232119_20180526T233202_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_20180526T233840_20180526T234432_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_20180526T234618_20180527T000726_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20180526T120411_20180526T120413_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20180526T144100_20180526T144118_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPR_2_20180526T010328_20180526T010405_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180526T065901_20180526T065949_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180526T192847_20180526T192938_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_220180526T003003_20180526T011941_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180526T070657_20180526T075635_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180525T234027_20180526T003003_C002	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
	Range Averaging Status Ocean Range Averaging Status, Ice	or more records. The Ocean and Ice Range Averaging Status Flags have been set for one
CS_OFFL_SIR_IOP_220180526T003003_20180526T011941_C001	Range Averaging Status	or more records.
CS_OFFL_SIR_IOP_2_20180526T011941_20180526T020917_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_220180526T020917_20180526T025854_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_220180526T025854_20180526T034830_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_220180526T034830_20180526T043808_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_220180526T043808_20180526T052744_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_220180526T052744_20180526T061721_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180526T061721_20180526T070657_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_220180526T070657_20180526T075635_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_220180526T075635_20180526T084611_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_220180526T084611_20180526T093548_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_220180526T093548_20180526T102524_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_220180526T102524_20180526T111502_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_220180526T111502_20180526T120438_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_220180526T120438_20180526T125416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180526T125416_20180526T134352_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_220180526T134352_20180526T143329_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_220180526T143329_20180526T152305_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180526T152305_20180526T161243_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180526T161243_20180526T170219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180526T170219_20180526T175156_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_220180526T175156_20180526T184132_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_2_20180526T184132_20180526T193110_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_2_20180526T193110_20180526T202046_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_2_20180526T202046_20180526T211023_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_220180526T211023_20180526T215959_C001	0 0 0	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180526T215959_20180526T224937_C001		The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180526T224937_20180526T233913_C002	IUcean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180526T233913_20180527T002851_C002		The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

### 6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180525T234027_20180526T003003_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180526T003003_20180526T011941_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_220180526T011941_20180526T020917_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_220180526T020917_20180526T025854_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_220180526T025854_20180526T034830_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_220180526T034830_20180526T043808_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_220180526T043808_20180526T052744_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_220180526T052744_20180526T061721_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_220180526T061721_20180526T070657_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_220180526T070657_20180526T075635_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_220180526T075635_20180526T084611_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_220180526T084611_20180526T093548_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_220180526T093548_20180526T102524_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_220180526T102524_20180526T111502_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_220180526T111502_20180526T120438_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_220180526T120438_20180526T125416_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_220180526T125416_20180526T134352_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_220180526T134352_20180526T143329_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_220180526T143329_20180526T152305_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_220180526T152305_20180526T161243_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_220180526T161243_20180526T170219_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_220180526T170219_20180526T175156_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_220180526T175156_20180526T184132_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_220180526T184132_20180526T193110_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_220180526T193110_20180526T202046_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_220180526T202046_20180526T211023_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_220180526T211023_20180526T215959_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_220180526T215959_20180526T224937_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_20180526T224937_20180526T233913_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180526T233913_20180527T002851_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

#### 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.

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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:

Ocean Retracking Quality Flag CS OFFL SIR IOP 2 20180526T003003 20180526T011941 C001 The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T011941\_20180526T020917\_C001 Ocean Retracking Quality Flag he Ocean Retracking Quality Flag has been set for one or more records CS OFFL SIR IOP 2 20180526T020917 20180526T025854 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T025854\_20180526T034830\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T034830\_20180526T043808\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T043808 20180526T052744 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T052744\_20180526T061721\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T061721\_20180526T070657\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T070657 20180526T075635 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T075635\_20180526T084611\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T084611\_20180526T093548\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T102524 20180526T111502 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T111502\_20180526T120438\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T120438 20180526T125416 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T125416 20180526T134352 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T134352\_20180526T143329\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T143329\_20180526T152305\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T152305\_20180526T161243\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T161243\_20180526T170219\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T170219\_20180526T175156\_C001 The Ocean Retracking Quality Flag has been set for one or more records. Ocean Retracking Quality Flag CS\_OFFL\_SIR\_IOP\_2\_\_20180526T175156\_20180526T184132\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T184132\_20180526T193110\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T193110 20180526T202046 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T202046\_20180526T211023\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T211023\_20180526T215959\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T215959\_20180526T224937\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180526T224937\_20180526T233913\_C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180526T233913 20180527T002851 C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.