



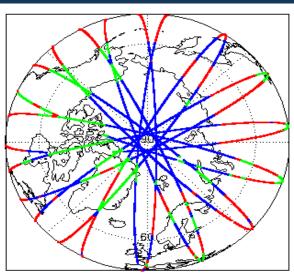
## 1. Overview

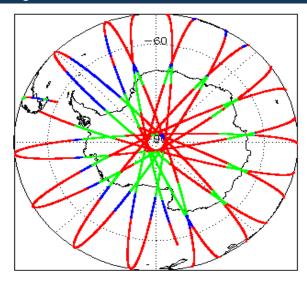
Report Production:	10-Apr-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

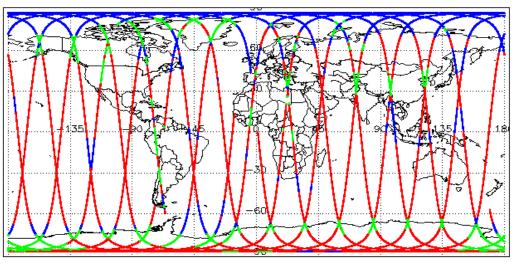
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

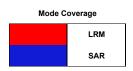
	Mission / Instrument News		
06-Apr-2019		None	
07-Apr-2019		None	
	08-Apr-2019	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

## 4.2 L1B Product Header Analysis

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

### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

12

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190407T024540_20190407T025503_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190407T214629_20190407T215549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190407T013302_20190407T013741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190407T031205_20190407T031314_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190407T130302_20190407T130412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190407T135737_20190407T135928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190407T144108_20190407T144326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190407T094333_20190407T095225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190407T111358_20190407T111646_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190407T111646_20190407T112343_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190407T143306_20190407T143350_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190407T162207_20190407T162814_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:

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Range Measurement Check

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

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

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

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

Number of products with errors:

75

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190407T001302_20190407T003040_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T003340_20190407T003451_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T004011_20190407T004211_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

Comparison   Com			The Ocean Range Averaging Status Flag has been set for one or more
Compt. Bit. (1994 2.) 201804677001802 201804677101802 2010   Compt. Bit. (1994 2.) 201804677001802 2010   Compt. Bit. (1994 2.) 201804		Ocean Range Averaging Status	records.
Corp. Sp. 10042_2000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190407T011110_20190407T011816_C001	Ocean Range Averaging Status	records.
Section   Company   Comp	CS_OFFL_SIR_IOPM_2_20190407T013820_20190407T015606_C001	Ocean Range Averaging Status	records.
Logority Bird (Lower) proteodorforders) collections of the foreign plants in the collection of the col	CS_OFFL_SIR_IOPM_2_20190407T015728_20190407T021122_C001	Ocean Range Averaging Status	records.
Co. (F. F., SEC OFF. 2.0) INVESTIGATION (CO. (CO.) INVESTIGATION (	CS_OFFL_SIR_IOPM_2_20190407T021920_20190407T022120_C001	Ice Range Averaging Status	records.
Const. Ser. Down 2. 20100001120200, 20180001120200, 2018001120200,	CS_OFFL_SIR_IOPM_2_20190407T022229_20190407T022622_C001	Ice Range Averaging Status	
Conf. 1, Str. (Conf. 2, 2) 10000077000000 20190007700000 20100007000000 20190007700000 20100007000000 20190007700000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 201000007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 201000007000000 20100007000000 20100007000000 20100007000000 20100007000000 20100007000000 201000007000000 201000007000000 201000007000000 201000007000000 201000007000000 201000007000000 2010000000000	CS_OFFL_SIR_IOPM_2_20190407T022801_20190407T024338_C001	Ocean Range Averaging Status	
Communication of the Communica	CS_OFFL_SIR_IOPM_2_20190407T024540_20190407T025503_C001	Ocean Range Averaging Status	
Security Security 2 patients for control of the con	CS_OFFL_SIR_IOPM_2_20190407T032256_20190407T033407_C001	Ocean Range Averaging Status	
Comp. Ser. John Comp. Zeroscontrological 2 proteoprotected   2018/04/10/05/05   Comp. Ser. John Comp. Ser. Joh	CS_OFFL_SIR_IOPM_2_20190407T035013_20190407T035412_C001	Ocean Range Averaging Status	
Company   Comp	CS_OFFL_SIR_IOPM_2_20190407T035726_20190407T040523_C001	Ice Range Averaging Status	
CS. OFFL, SIR, JOPIA 2. 201900/TT05981. 201900/TT05985. 201900	CS_OFFL_SIR_IOPM_2_20190407T040712_20190407T042245_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SR_LOPM_2_70106407100082_0104407100309_01051  CS_OFFL_SR_LOPM_2_70106407100082_0104407100001  CS_OFFL_SR_LOPM_2_70106407100082_0104047100001  CS_OFFL_SR_LOPM_2_70106407100082_0104047100001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000001  CS_OFFL_SR_LOPM_2_70106407100082_010404710000001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000000001  CS_OFFL_SR_LOPM_2_70106407100082_01040471000000001  CS_OFFL_SR_LOPM_2_70106407100082_010404710000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190407T045941_20190407T050915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS. OFFL, SIRL, IOPM2_20100471105035_12010407105136_C001  CS. OFFL, SIRL, IOPM2_20100471105035_2010047105136_C001  CS. OFFL, SIRL, IOPM2_2010047105105_2010407105136_C001  CS. OFFL, SIRL, IOPM2_2010047105105_2010407105106_C001  CS. OFFL, SIRL, IOPM2_2010047105105_C001  CS. OFFL, SIRL, IOPM2_2010047105105_C001  CS. OFFL, SIRL, IOPM2_2010047105105_C001  CS. OFFL, SIRL, IOPM2_2010047105105_C001  CS. OFFL, SIRL, IOPM2_201004710505_C001  CS. OFFL, SIRL, IOPM2_2010047110505_C001  CS. OFFL	CS_OFFL_SIR_IOPM_2_20190407T050935_20190407T053330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
GS_CPFL_SIR_LOPM_2_20190407T105435_20100407T07345_C011  CS_CPFL_SIR_LOPM_2_20190407T107804_20100407T07249_C011  CS_CPFL_SIR_LOPM_2_20190407T107804_201001  CS_CPFL_SIR_LOPM_2_20190407T107804_201001  CS_CPFL_SIR_LOPM_2_20190407T107804_201001  CS_CPFL_SIR_LOPM_2_20190407T1078042_C011  CS_CPFL_SIR_LOPM_2_20190407T1078045_0010407T1078032_C011  CS_CPFL_SIR_LOPM_2_20190407T1078056_0010407T1078032_C011  CS_CPFL_SIR_LOPM_2_20190407T1078056_0010407T1078056_0011  CS_CPFL_SIR_LOPM_2_20190407T1078056_0010407T1078056_0011  CS_CPFL_SIR_LOPM_2_20190407T1078056_0010407T1078056_0011  CS_CPFL_SIR_LOPM_2_20190407T1078056_0011  CS_CPFL_SIR_LOPM_2_20190407T107806_0011  CS_CPFL_SIR_LOPM_2_20190407T107806_0011  CS_CPFL_SIR_LOPM_2_20190407T107806_0011  CS_CPFL_SIR_LOPM_2_20190407T107806_0011  CS_CPFL_SIR_LOPM_2_20190407T107806_0011  CS_CPFL_SIR_LOPM_2_20190407T107806_0011  CS_CPFL_SIR_LOPM_2_20190407T13806_0011  CS_CPFL_SIR_LOPM_2_201904007T13806_0011  CS_CPFL_SIR_LOPM_2_201904007T13806_0011  CS_CPFL_SIR_LOPM_2_201904007T13806_00	CS_OFFL_SIR_IOPM_2_20190407T053834_20190407T054410_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SR_QORM_2_0106407106508_01001 Cean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071071082_01001007107294_C010 Cean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071071082_0100407107294_C010 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_0106407107292_0104071070511_C010 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071060712_0106050_C010 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071060712_0106050_C010 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071060712_0106050_C010 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071060412_0106407106050_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407106050_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407110610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407110610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407110610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407110610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407110610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_010640711060412_0106407110610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071106041_010610_C011 Cean Range Averaging Status Flag has been set for one or more record.  CS_OFFL_SR_QORM_2_01064071106041_010610_C011	CS_OFFL_SIR_IOPM_2_20190407T054638_20190407T061158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Ocean Range Averaging Status  The Ocean	CS OFFL SIR IOPM 2 20190407T064335 20190407T065508 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
OR Agrip Averaging Status  The foc Rarge Averaging Status Flag has been set for one or more except.  In Coan Rarge Averaging Status  The foc Rarge Averaging Status Flag has been set for one or more except.  OR OFFL SIR JOPM 2 20190407709734 20190407709734 (20190407709734 (20190407709734 (20190407709734 (20190407709736 (20190477109736 (2019047709736 (2019047709736 (2019047709736 (20190477109736 (201904			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_JOPM_2_20160407107243_20100407107541_C001  CS_OFFL_SIR_JOPM_2_20180407107551_20180407107551_C001  CS_OFFL_SIR_JOPM_2_20180407108751_20180407108025_C001  CS_OFFL_SIR_JOPM_2_20180407108015_20180407108025_C001  CS_OFFL_SIR_JOPM_2_20180407108015_20180407108025_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407108015_C001  CS_OFFL_SIR_JOPM_2_20180407113015_C001  CS_OFFL_SIR_JOPM_2_20180407113015_C001001  CS_OFFL_SIR_JOPM_2_20180407113015_C00100100171355_C001  CS_OFFL_SIR_JOPM_2_2018040711301			
CS_OFFL_SIR_JOPM_2_201904077105724_201904077005736_C001  CS_OFFL_SIR_JOPM_2_20190407705718_201904077005736_C001  CS_OFFL_SIR_JOPM_2_20190407705718_201904077005736_C001  CS_OFFL_SIR_JOPM_2_20190407705718_201904077005736_C001  CS_OFFL_SIR_JOPM_2_20190407705718_201904077005736_C001  CS_OFFL_SIR_JOPM_2_20190407705718_201904077005736_C001  CS_OFFL_SIR_JOPM_2_201904077050718_20190407700106_C001  CS_OFFL_SIR_JOPM_2_2019040771050718_20190407710106_C001  CS_OFFL_SIR_JOPM_2_201904077105071_20190407710108_C001  CS_OFFL_SIR_JOPM_2_201904077110507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_20190407710508_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00190407712508_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00104077112507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00104077112507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00104077112507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00104077112507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00104077112507_C001  CS_OFFL_SIR_JOPM_2_201904077112507_C00104077112507_C001  CS_OFFL_SIR_JOPM_2_			
CS_OFFL_SR_IOPM_2_20190407109413_20190407109130_C001  CS_OFFL_SR_IOPM_2_20190407109413_20190407109130_C001  CS_OFFL_SR_IOPM_2_20190407109413_20190407109130_C001  CS_OFFL_SR_IOPM_2_20190407109413_20190407109130_C001  CS_OFFL_SR_IOPM_2_201904071090413_20190407109130_C001  CS_OFFL_SR_IOPM_2_201904071090413_20190407109130_C001  CS_OFFL_SR_IOPM_2_20190407109061_20190407110413_C001  CS_OFFL_SR_IOPM_2_201904071109061_20190407110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904071130061_201904077110413_C001  CS_OFFL_SR_IOPM_2_201904077130061_201904077130061_C001  CS_OFFL_SR_IOPM_2_201904077140062_201904077130061_C001  CS_OFFL_SR_IOPM_2_201904077140062_201904077130061_C001  CS_OFFL_SR_IOPM_2_201904077140062_201904077130061_C001  CS_OFFL_SR_IOPM_2_201904077140062_201904077130061_C001  CS_OFFL_SR_IOPM_2_201904077140061_C00104077140061_C001  CS_OFFL_SR_IOPM_2_201904077140061_C00104077140061_C001  CS_OFFL_SR_IOPM_2_201904077140061_C00104077			
CS_OFFL_SR_JOPM_2_201904071090132_201904071090252_0001  CS_OFFL_SR_JOPM_2_201904071090132_201904071090025_0001  CS_OFFL_SR_JOPM_2_201904071090132_001904071090025_0001  CS_OFFL_SR_JOPM_2_201904071090132_001904071090025_0001  CS_OFFL_SR_JOPM_2_201904071090132_001904071109002_001904071090025_001904071090025_001904071090025_00190407109002_00190407109002_00190407109003_00190407109003_00190407109003_00190407109003_00190407109003_00190407109003_00190407109003_00190407109003_00190407109003_00190407109003_001904071109003_0019040710900			records.
CS_OFFL_SIR_LOPM_2_20190407109013_20190407109032_C001  CS_OFFL_SIR_LOPM_2_201904071090565_20190407109103_C001  CS_OFFL_SIR_LOPM_2_201904071090565_20190407109103_C001  CS_OFFL_SIR_LOPM_2_201904071090565_20190407109103_C001  CS_OFFL_SIR_LOPM_2_2019040710329_201904071109103_C001  CS_OFFL_SIR_LOPM_2_2019040710329_201904071109103_C001  CS_OFFL_SIR_LOPM_2_2019040710331_201904071109103_C001  CS_OFFL_SIR_LOPM_2_2019040710331_201904071109103_C001  CS_OFFL_SIR_LOPM_2_201904071103301_2019040711090_C001  CS_OFFL_SIR_LOPM_2_20190407113305_20190407112589_C001  CS_OFFL_SIR_LOPM_2_201904071130032_20190407112589_C001  CS_OFFL_SIR_LOPM_2_20190407130032_20190407113805_C001  CS_OFFL_SIR_LOPM_2_20190407130032_20190407138053_C001  CS_OFFL_SIR_LOPM_2_20190407138001_20190407138053_C001  CS_OFFL_SIR_LOPM_2_20190407136002_201904071138053_C001  CS_OFFL_SIR_LOPM_2_20190407116008_20190407114306_C001  CS_OFF			records.
CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103821_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103822_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103002_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103002_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103002_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103002_20190407T104132_C001  CS_OFFL_SIR_LOPM_2_20190407T103002_20190407T10410002_C001  CS_OFFL_SIR_LOPM_2_20190407T100002_20190407T10410002_C001  CS_OFFL_SIR_LOPM_2_20190407T100002_20190407T100002_C001  CS_OFFL_SIR_LOPM_2_20190407T100002_20190407T100		Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190407T195054_20190407T195105_C001  CS_OFFL_SIR_IOPM_2_20190407T195255_C0194007T103105_C001  CS_OFFL_SIR_IOPM_2_20190407T195255_C0194007T102040_C011  CS_OFFL_SIR_IOPM_2_20190407T192236_20190407T120840_C011  CS_OFFL_SIR_IOPM_2_20190407T192236_C0194007T120840_C011  CS_OFFL_SIR_IOPM_2_20190407T132236_C0194007T120840_C011  CS_OFFL_SIR_IOPM_2_20190407T132236_C0194007T120840_C011  CS_OFFL_SIR_IOPM_2_20190407T132236_C0194007T120851_C001  CS_OFFL_SIR_IOPM_2_20190407T132238_C0194007T132586_C001  CS_OFFL_SIR_IOPM_2_20190407T130024_20190407T135586_C001  CS_OFFL_SIR_IOPM_2_20190407T130024_C0190407T135586_C001  CS_OFFL_SIR_IOPM_2_20190407T130024_C0190407T135586_C001  CS_OFFL_SIR_IOPM_2_20190407T130024_C0190407T135586_C001  CS_OFFL_SIR_IOPM_2_20190407T135025_C0194007T135026_C001  CS_OFFL_SIR_IOPM_2_20190407T140502_20190407T135026_C001  CS_OFFL_SIR_IOPM_2_20190407T140502_C0190407T135056_C001  CS_OFFL_SIR_IOPM_2_20190407T140502_C0190407T135056_C001  CS_OFFL_SIR_IOPM_2_20190407T140502_C0190407T135056_C001  CS_OFFL_SIR_IOPM_2_20190407T140502_C0190407T135056_C001  CS_OFFL_SIR_IOPM_2_20190407T140502_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_C0190407T1500156_	CS_OFFL_SIR_IOPM_2_20190407T090413_20190407T091036_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190407T103021_20190407T103132_C001  CS_OFFL_SIR_IOPM_2_20190407T104314_20190407T104150_C001  CS_OFFL_SIR_IOPM_2_20190407T12238_20190407T125134_C001  CS_OFFL_SIR_IOPM_2_20190407T12238_20190407T125134_C001  CS_OFFL_SIR_IOPM_2_20190407T125151_20190407T125134_C001  CS_OFFL_SIR_IOPM_2_20190407T130024_20190407T130302_C001  CS_OFFL_SIR_IOPM_2_20190407T130024_20190407T130020_C001  CS_OFFL_SIR_IOPM_2_20190407T130032_20190407T130503_C001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T130506_C001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T130506_C001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T130506_C001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T130506_C001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T130506_C001  CS_OFFL_SIR_IOPM_2_20190407T150001_20190407T130506_C001  CS_OFFL_SIR_IOPM_2_20190407T150001_20190407T150506_C001  CS_OFFL_SIR_IOPM_2_20190407T150001_20190407T150506_C001  CS_OFFL_SIR_IOPM_2_20190407T150001_20190407T150001_C00100001  CS_OFFL_SIR_IOPM_2_20190407T1500001_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20190407T1500006_20190407T1500001  CS_OFFL_SIR_IOPM_2_20	CS_OFFL_SIR_IOPM_2_20190407T094145_20190407T094332_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190407T110352_20190407T110150_C001  CS_OFFL_SIR_IOPM_2_20190407T110355_20190407T110150_C001  CS_OFFL_SIR_IOPM_2_20190407T110355_20190407T110150_C001  CS_OFFL_SIR_IOPM_2_20190407T12051_20190407T110150_C001  CS_OFFL_SIR_IOPM_2_20190407T12051_20190407T110010_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T13000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T130000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T140000_20190407T140000_20190407T13000_C001  CS_OFFL_SIR_IOPM_2_20190407T140000_20190407T140000_20190407T140000_20190407T140000_20190407T140000_20190407T140000_20190407T150000_C001  CS_OFFL_SIR_IOPM_2_20190407T140000_20190407T150000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T15000007T160000_C001  CS_OFFL_SIR_IOPM_2_20190407T1500000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190407T095654_20190407T103103_C001	Ocean Range Averaging Status	records.
Scart Sign Comb.  CS_OFFL_SIR_IOPM_2_201904077113305_201904077125134_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range	CS_OFFL_SIR_IOPM_2_20190407T103621_20190407T104132_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190407T12238_20190407T125381_C001  CS_OFFL_SIR_IOPM_2_20190407T125151_20190407T125381_C001  CS_OFFL_SIR_IOPM_2_20190407T130302_C001  CS_OFFL_SIR_IOPM_2_20190407T13001_20190407T13001  CS_OFFL_SIR_IOPM_2_20190407T13001_20190407T13001  CS_OFFL_SIR_IOPM_2_20190407T13001_20190407T13001  CS_OFFL_SIR_IOPM_2_20190407T13001_20190407T13001  CS_OFFL_SIR_IOPM_2_20190407T13001_20190407T130001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T140001  CS_OFFL_SIR_IOPM_2_20190407T140003_20190407T143006_C001  CS_OFFL_SIR_IOPM_2_20190407T1400003_20190407T143006_C001  CS_OFFL_SIR_IOPM_2_20190407T1400003_20190407T143006_C001  CS_OFFL_SIR_IOPM_2_20190407T1400003_20190407T143006_C001  CS_OFFL_SIR_IOPM_2_20190407T1400003_20190407T143006_C001  CS_OFFL_SIR_IOPM_2_20190407T1400003_20190407T143006_C001  CS_OFFL_SIR_IOPM_2_20190407T15001_C000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190407T104314_20190407T110150_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20194007T125151_2019407T125352_C019407T125352_C019407T125352_C019407T125352_C019407T125352_C019407T125352_C019407T130024_2019407T130024_C019407T140024_C019407T140024_C019407T140024_C019407T140024_C019407T140024_C019407T150034_C0194007T150034_C019407T150034_C01940007T150034_C01940007T150034_C01940007T150034_C01940007T150034_C01940007T150040_C01940007T1500400	CS_OFFL_SIR_IOPM_2_20190407T113505_20190407T120849_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190407T130204_20190407T130302_C001  CS_OFFL_SIR_IOPM_2_20190407T131823_20190407T138508_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T138508_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135518_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135518_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135536_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135536_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135536_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135536_C001  CS_OFFL_SIR_IOPM_2_20190407T135537_20190407T13500_C001  CS_OFFL_SIR_IOPM_2_20190407T135537_20190407T13500_C001  CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T13500_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143554_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T1508_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T150031_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T150001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T16008_20190407T160001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160001  CS_OFFL_SIR_IOPM_2_20190407T1700001  CS_OFFL_SIR_IOPM_2_20190407T17000001  CS_OFFL_SIR_IOPM_2_20190407T17000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190407T122236_20190407T125134_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190407T131823_20190407T13558_C001  CS_OFFL_SIR_IOPM_2_20190407T13523_20190407T135518_C001  CS_OFFL_SIR_IOPM_2_20190407T135518_C001  CS_OFFL_SIR_IOPM_2_20190407T135572_C0190407T135518_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143564_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143564_C001  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T145634_C001  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T15538_C001  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T145634_C001  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T155478_C001  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T155482_C001  CS_OFFL_SIR_IOPM_2_20190407T15032_C0190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T155298_C0190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T155211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T155475_C001  CS_OFFL_SIR_IOPM_2_20190407T155213_C0190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T16045_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T160455_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T176035_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T17160006_20190407T175540_C001  CS_OFFL_SIR_IOPM_2_20190407T17160006_20190407T175540_C001  CS_OFFL_SIR_IOPM_2_20190407T17160006_20190407T175540_C001  CS_OFFL_SIR_IOPM_2_20190407T17160006_20190407T17553_C001  CS_OFFL_SIR_IOPM_2_20190407T17160006_20190407T175540_C001  CS_OFFL_SIR_IOPM_2_20190407T171840_20190407T175530_C001  CS_OFFL_SIR_IOPM_2_20190407T176006_20190407T175540_C001  CS_OFFL_SIR_IOPM_2_2019	CS_OFFL_SIR_IOPM_2_20190407T125151_20190407T125851_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T132329_20190407T135482_C001  CS_OFFL_SIR_IOPM_2_20190407T13529_20190407T135518_C001  CS_OFFL_SIR_IOPM_2_20190407T135736_C001  CS_OFFL_SIR_IOPM_2_20190407T135736_C001  CS_OFFL_SIR_IOPM_2_20190407T140803_20190407T135736_C001  CS_OFFL_SIR_IOPM_2_20190407T140803_20190407T148366_C001  CS_OFFL_SIR_IOPM_2_20190407T1418536_C001  CS_OFFL_SIR_IOPM_2_20190407T1418536_C001  CS_OFFL_SIR_IOPM_2_20190407T1418536_C001  CS_OFFL_SIR_IOPM_2_20190407T1418536_C001  CS_OFFL_SIR_IOPM_2_20190407T1418552_C0190407T143654_C001  CS_OFFL_SIR_IOPM_2_20190407T1408_20190407T150836_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T15088_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T150036_C001  CS_OFFL_SIR_IOPM_2_20190407T160036_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160036_20190407T160045_C001  CS_OFFL_SIR_IOPM_2_20190407T160036_20190407T176035_C001  CS_OFFL_SIR_IOPM_2_20190407T160036_20190407T176035_C001  CS_OFFL_SIR_IOPM_2_20190407T160036_20190407T176035_C001  CS_OFFL_SIR_IOPM_2_20190407T1710033_20190407T1710035_C001  CS_OFFL_SIR_IOPM_2_20190407T1710033_20190407T171540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_20190407T171540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_20190407T171540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_20190407T171540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_20190407T171540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_20190407T175400_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_20190407T175400_C001  CS_OFFL_SIR_IOPM_2_20190407T17	CS_OFFL_SIR_IOPM_2_20190407T130024_20190407T130302_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T13529_20190407T13529_C010  Loe Range Averaging Status  Loe Range Averaging Status  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging 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_20190407T14208_20190407T14306_C001  Coean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20190407T143552_20190407T143564_C001  Coean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T1508_C001  Coean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T1508_C001  CS_OFFL_SIR_IOPM_2_20190407T15238_C001  CS_OFFL_SIR_IOPM_2_20190407T15238_C0190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T15293_C0190407T15347_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T164045_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 se	CS_OFFL_SIR_IOPM_2_20190407T131823_20190407T132558_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T135037_20190407T135736_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T141853_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143564_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T15058_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T15058_C001  CS_OFFL_SIR_IOPM_2_20190407T15238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T15238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T15226_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T15211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T1715350_C001  CS_OFFL_SIR_IOPM_2_20190407T160008_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T160008_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171093_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171093_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171093_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171093_20190407T175400_C001  CS_OFFL_SIR_IOPM_2_20190407T171093_20190407T17553_C001  CS_OFFL_SIR_IOPM_2_20190407T171093_20190407T17553_C001  CS_OFFL_SIR_IOPM_2_20190407T1710940_20190407T17553_C001  CS_OFFL_SIR_IOPM_2_20190407T1710940_20190407T17553_C001  CS_OFFL_SIR_IOPM_2_20190407T1710940_20190407T17553_C001	CS_OFFL_SIR_IOPM_2_20190407T133229_20190407T134820_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T142083_20190407T144385_CO01  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_CO01  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_CO01  CS_OFFL_SIR_IOPM_2_20190407T143552_20190407T143654_CO01  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T151058_CO01  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_CO01  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_CO01  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T153429_CO01  CS_OFFL_SIR_IOPM_2_20190407T155211_20190407T155447_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T155447_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T170635_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17534_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T175440_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17552_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR_IOPM_2_20190407T171002_20190407T17554_CO01  CS_OFFL_SIR	CS_OFFL_SIR_IOPM_2_20190407T135001_20190407T135518_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_C001  CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143064_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T151058_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T151058_C001  CS_OFFL_SIR_IOPM_2_20190407T151038_20190407T151058_C001  CS_OFFL_SIR_IOPM_2_20190407T151038_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T15228_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T152211_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T152211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T16045_C001  CS_OFFL_SIR_IOPM_2_20190407T16008_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T160008_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T160008_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T160008_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T160008_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T17100007T17000007T1	CS_OFFL_SIR_IOPM_2_20190407T135537_20190407T135736_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_C001  CS_OFFL_SIR_IOPM_2_20190407T143552_20190407T143654_C001  CS_OFFL_SIR_IOPM_2_20190407T15031_20190407T15058_C001  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T15058_C001  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T15238_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152211_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T164906_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T164906_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T1710033_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T1710035_C001  CS_O	CS_OFFL_SIR_IOPM_2_20190407T140603_20190407T141853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T143552_20190407T151058_C001  CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T151058_C001  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T152912_20190407T155211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T160307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T160307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T160307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T17553_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T175540_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_2	CS_OFFL_SIR_IOPM_2_20190407T142108_20190407T143306_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190407T151031_20190407T151058_C001  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T15247_C001  CS_OFFL_SIR_IOPM_2_20190407T152211_20190407T15247_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160208_20190407T16035_C001  CS_OFFL_SIR_IOPM_2_20190407T164906_20190407T175345_C001  CS_OFFL_SIR_IOPM_2_20190407T16903_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T1690608_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T170935_C001  CS_OFFL_SIR_IOPM_2_20190407T170935_C001  CS_OFFL_SIR_IOPM_2_20190407T170935_C001  CS_OFFL_SIR_IOPM_2_20190407T17107_20190407T17533_C001  CS_OFFL_SIR_IOPM_2_20190407T17107_20190407T17533_C001  CS_OFFL_SIR_IOPM_2_20190407T17107_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T17107_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T1710006_20190407T17540_C001  COean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ioe Range Averaging Status Flag has been set for one or more records.  The Ioe Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ioe Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ioe Range Averaging Status Flag has been set for one or more records.  The O	CS_OFFL_SIR_IOPM_2_20190407T143552_20190407T143654_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T152429_C001  CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T15211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T161307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T161307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T17140906_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T17540_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T1718036_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171805259_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T1845259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OF	CS_OFFL_SIR_IOPM_2_20190407T150031_20190407T151058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T152926_20190407T153429_C001  CS_OFFL_SIR_IOPM_2_20190407T155211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T160307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T160307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T17535_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T17182036_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T17182036_20190407T1754559_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185	CS_OFFL_SIR_IOPM_2_20190407T151238_20190407T152738_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T155211_20190407T155447_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_C001  CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T161307_C001  CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T161307_C001  CS_OFFL_SIR_IOPM_2_20190407T164906_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T170635_C001  CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T171553_C001  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T17184036_20190407T1784621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185759_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T1857	CS OFFL SIR IOPM 2 20190407T152926 20190407T153429 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T160208_20190407T160445_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 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 Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag ha	CS OFFL SIR IOPM 2 20190407T155211 20190407T155447 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T160608_20190407T161307_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_20190407T170933_20190407T171345_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T171553_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_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
CS_OFFL_SIR_IOPM_2_20190407T164906_20190407T170635_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190407T170933_20190407T171345_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190407T17140_20190407T175440_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
CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T171553_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.  CS_OFFL_SIR_IOPM_2_20190407T171940_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_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.			
CS_OFFL_SIR_IOPM_2_20190407T171407_20190407T171533_C001  CS_OFFL_SIR_IOPM_2_20190407T17140_20190407T175440_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001			
CS_OFFL_SIR_IOPM_2_20190407T184036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T182036_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T184621_C001  CS_OFFL_SIR_IOPM_2_20190407T184736_20190407T185259_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more			records.
CS_OFFL_SIR_IOFM_2_201904071162036_201904071164021_C001  CS_OFFL_SIR_IOFM_2_201904071184736_201904071165259_C001  Lice Range Averaging Status  Lice Range Averaging Status  The lice Range Averaging Status Flag has been set for one or more			records.
CS OFFE SIR IOPM 2 201904071184736 201904071185259 C001 - IICE Range Averaging Status			records.
	CS_OFFL_SIK_IOPM_2_201904071184736_20190407T185259_C001	ice Kange Averaging Status	

CS_OFFL_SIR_IOPM_2_20190407T185306_20190407T185630_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T185846_20190407T191058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T191634_20190407T193201_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T195531_20190407T201809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T201921_20190407T202558_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T202731_20190407T203537_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T203813_20190407T211302_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T212613_20190407T212716_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T215632_20190407T220525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T220708_20190407T221225_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T221743_20190407T224034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T224320_20190407T225241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T230447_20190407T230856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T232448_20190407T232930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T233118_20190407T234431_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T235710_20190408T003048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190407T062455_20190407T062514_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190407T130302_20190407T130412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190407T093127_20190407T093205_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190407T125852_20190407T125924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190407T141854_20190407T142107_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.

Description

Test Failed

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

CS_OFFL_SIR_IOPM_2_20190407T001302_20190407T003040_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_20190407T003340_20190407T003451_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_20190407T004011_20190407T004211_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T004901_20190407T010653_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_20190407T011110_20190407T011816_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_20190407T013820_20190407T015606_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_20190407T015728_20190407T021122_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_20190407T022229_20190407T022622_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T022801_20190407T024338_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_20190407T024540_20190407T025503_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_20190407T032256_20190407T033407_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_20190407T035013_20190407T035412_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_20190407T035726_20190407T040523_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T040712_20190407T042245_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_20190407T050935_20190407T053330_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_20190407T053834_20190407T054410_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T054638_20190407T061158_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_20190407T064335_20190407T065508_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_20190407T070045_20190407T071229_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_20190407T071808_20190407T072243_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190407T072524_20190407T075341_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_20190407T081751_20190407T085139_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\_20190407T085718\_20190407T090250\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T090413 20190407T091036 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T094145\_20190407T094332\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T095654\_20190407T103103\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190407T103621 20190407T104132 C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T104314 20190407T110150 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T113505 20190407T120849 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190407T121637 20190407T122034 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T122236\_20190407T125134\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T125151\_20190407T125851\_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190407T130024 20190407T130302 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T131823\_20190407T132558\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T133229 20190407T134820 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T135001\_20190407T135518\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T135537\_20190407T135736\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T140603 20190407T141853 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T142108 20190407T143306 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T143552\_20190407T143654\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T150031 20190407T151058 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T151238\_20190407T152738\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T152926\_20190407T153429\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T155211 20190407T155447 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T160208\_20190407T160445\_C001 Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR IOPM 2 20190407T160608 20190407T161307 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T164359 20190407T164711 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T164906 20190407T170635 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T170933\_20190407T171345\_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T171407\_20190407T171553\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T171940\_20190407T175440\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T182036 20190407T184621 C001 Backscatter Averaging Status nore records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T184736\_20190407T185259\_C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T185306\_20190407T185630\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T185846 20190407T191058 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T191634\_20190407T193201\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T195531\_20190407T201809\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T201921 20190407T202558 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status CS\_OFFL\_SIR\_IOPM\_2\_20190407T202731\_20190407T203537\_C001 records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T203813\_20190407T211302\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T212613 20190407T212716 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T215632 20190407T220525 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190407T220708\_20190407T221225\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T221743\_20190407T224034\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T224320\_20190407T225241\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T230447 20190407T230856 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T232448\_20190407T232930\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20190407T233118\_20190407T234431\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20190407T235710 20190408T003048 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPN\_2\_20190407T062455\_20190407T062514\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPN\_2\_20190407T130302\_20190407T130412\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPR 2 20190407T093127 20190407T093205 C001 Backscatter Averaging Status more records.

The Ice Backscatter Averaging Status Flag has been set for one or more

CS\_OFFL\_SIR\_IOPR\_2\_20190407T125852\_20190407T125924\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status

CS\_OFFL\_SIR\_IOPR\_2\_20190407T141854\_20190407T142107\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status

49

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

### 5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

## 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).

Number of products with errors:

0

### 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_220190407T171353_20190407T180331_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: 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190406T235201_20190407T004138_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T004138_20190407T013115_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T013115_20190407T022051_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_220190407T022051_20190407T031028_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_220190407T031028_20190407T040005_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_220190407T040005_20190407T044942_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_220190407T044942_20190407T053918_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_220190407T053918_20190407T062856_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_220190407T062856_20190407T071832_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_220190407T071832_20190407T080809_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_220190407T080809_20190407T085746_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T085746_20190407T094723_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_220190407T094723_20190407T103659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T103659_20190407T112636_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_220190407T112636_20190407T121613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T121613_20190407T130550_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_220190407T130550_20190407T135526_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_220190407T135526_20190407T144504_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T144504_20190407T153440_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_220190407T153440_20190407T162417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190407T162417_20190407T171353_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_220190407T171353_20190407T180331_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T180331_20190407T185307_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_220190407T185307_20190407T194244_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_220190407T194244_20190407T203221_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_220190407T203221_20190407T212158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T212158_20190407T221134_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_220190407T221134_20190407T230112_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T230112_20190407T235048_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_220190407T235048_20190408T004025_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

## 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors: 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190406T235201_20190407T004138_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_220190407T004138_20190407T013115_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_220190407T013115_20190407T022051_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_220190407T022051_20190407T031028_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_220190407T031028_20190407T040005_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_220190407T040005_20190407T044942_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_220190407T044942_20190407T053918_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_220190407T053918_20190407T062856_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_220190407T062856_20190407T071832_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_220190407T071832_20190407T080809_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_220190407T080809_20190407T085746_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_20190407T085746_20190407T094723_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_20190407T094723_20190407T103659_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_20190407T103659_20190407T112636_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_20190407T112636_20190407T121613_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_220190407T121613_20190407T130550_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_220190407T130550_20190407T135526_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_20190407T135526_20190407T144504_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190407T144504_20190407T153440_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_220190407T153440_20190407T162417_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_220190407T162417_20190407T171353_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_220190407T171353_20190407T180331_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_220190407T180331_20190407T185307_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_220190407T185307_20190407T194244_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_20190407T194244_20190407T203221_C001		The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190407T203221_20190407T212158_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_20190407T212158_20190407T221134_C001	Backscaffer Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190407T221134_20190407T230112_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190407T230112_20190407T235048_C001	Backscaffer Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20190407T235048_20190408T004025_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20190406T235201_20190407T004138_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T004138_20190407T013115_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T013115_20190407T022051_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T022051_20190407T031028_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T031028_20190407T040005_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T044942_20190407T053918_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T053918_20190407T062856_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T062856_20190407T071832_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T071832_20190407T080809_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T080809_20190407T085746_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T085746_20190407T094723_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T094723_20190407T103659_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T103659_20190407T112636_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T112636_20190407T121613_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T121613_20190407T130550_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T130550_20190407T135526_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T135526_20190407T144504_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T144504_20190407T153440_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T153440_20190407T162417_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T162417_20190407T171353_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T171353_20190407T180331_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T180331_20190407T185307_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T185307_20190407T194244_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T194244_20190407T203221_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T203221_20190407T212158_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T212158_20190407T221134_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T221134_20190407T230112_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190407T230112_20190407T235048_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.