



## 1. Overview

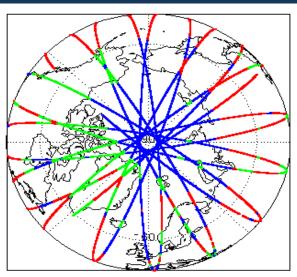
Report Production:	28-May-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

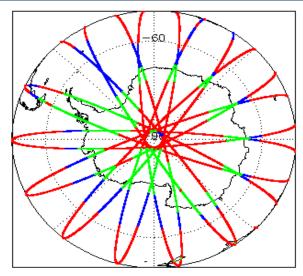
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
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

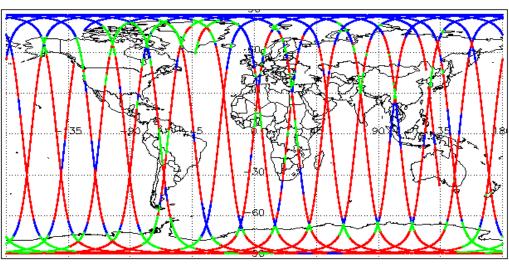
MISSION / INSULUMENT NEWS		
22-May-2019	None	
23-May-2019	None	

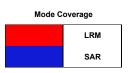
24-May-2019 Nothing planned

# 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:

Λ

## 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:

25

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190523T004633_20190523T005904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190523T072055_20190523T075430_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190523T105740_20190523T111240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190523T122449_20190523T123434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190523T172227_20190523T175003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T021604_20190523T021825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T044702_20190523T044953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T065635_20190523T065841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T070842_20190523T070923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T102738_20190523T102855_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T120228_20190523T120621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T120636_20190523T120807_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T130052_20190523T130706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T134252_20190523T134657_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190523T202830_20190523T202920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T000824_20190523T001026_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T004429_20190523T004633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T021825_20190523T021854_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T052541_20190523T053626_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T070923_20190523T071709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T084106_20190523T084551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T093315_20190523T093459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T133929_20190523T134144_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T170211_20190523T171108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190523T220558_20190523T221132_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:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

## 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:

81

CS_OFFL_SIR_IOPM_2_20190522T235257_20190523T000824_C001 Oce	cean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more
	cean Range Averaging Status	
CC OFFI CID IODM 2 20400F23T004026 20400F23T004040 C004		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T001026_20190523T001948_C001	cean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190523T003755_20190523T003936_C001	Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T004207_20190523T004429_C001	rean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T004633_20190523T005904_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T011526_20190523T011627_C001 Oce	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T013237_20190523T014653_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T023202_20190523T023232_C001 Occ	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T023355_20190523T025733_C001 Occ	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T030033_20190523T030901_C001	Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
	1	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
	•	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T044245_20190523T044702_C001   Ice	Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190523T045100_20190523T051714_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T054315_20190523T055857_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T060427_20190523T061516_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T062156_20190523T062741_C001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T062924_20190523T063522_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T070643_20190523T070745_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T072055_20190523T075430_C001 Oce	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T080101_20190523T080613_C001	e Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T080916_20190523T082740_C001	rean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	rean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The 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_20190523T094906_20190523T102324_C001	ean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T102324_20190523T102346_C001	ean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190523T102630_20190523T102737_C001	Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T103931_20190523T105112_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T105515_20190523T105735_C001	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T105740_20190523T111240_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T111437_20190523T111959_C001	Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T113111_20190523T114335_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T114517_20190523T120219_C001 Oce	eaan Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T122449_20190523T123434_C001	rean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
	e Range Averaging Status	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
	Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
	Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T130706_20190523T131050_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T132503_20190523T133800_C001	cean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190523T141514_20190523T143036_C001	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T143342_20190523T143826_C001	Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
	cean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more

CS_OPFL_SIR_LOPML_2.01000237110448_201000237110720_C001  CS_OPFL_SIR_LOPML_2.010002371104748_201000237110720_C001  CS_OPFL_SIR_LOPML_2.010002371104748_201000237110730_C001  CS_OPFL_SIR_LOPML_2.010002371104748_201000237110730_C001  CS_OPFL_SIR_LOPML_2.010002371104748_201000237170500_C001  CS_OPFL_SIR_LOPML_2.010002371104748_201000237170500_C001  CS_OPFL_SIR_LOPML_2.01000237170500_C001  CS_OPFL_SIR_LOPML_2.01000237120000_C001  CS_OPFL_SIR_LOPML_2.01000237120000_C00100237120000_C001  CS_OPFL_SIR_LOPML_2.01000237120000_C00100237120000_C00100237120000_C00100237120000_C	CS_OFFL_SIR_IOPM_2_20190523T150802_20190523T151143_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Co. DFFL_SRI_CPM2_201000237110420_201000237110430_C010  Co. DFFL_SRI_CPM2_201000237104042_201000237105041_C0010  Co. DFFL_SRI_CPM2_201000237104042_201000237105041_C0010  Co. DFFL_SRI_CPM2_201000237104042_201000237105041_C0010  Co. DFFL_SRI_CPM2_201000237104042_201000237105041_C0010  Co. DFFL_SRI_CPM2_201000237104042_201000237105041_C0010  Co. DFFL_SRI_CPM2_201000237104042_2010002371040510_C0010  Co. DFFL_SRI_CPM2_201000237104042_201000237104061_C0010  Co. DFFL_SRI_CPM2_201000237104042_201000237104061_C0010  Co. DFFL_SRI_CPM2_201000237104061_201000237104061_C0010  Co. DFFL_SRI_CPM2_201000237104061_C00100237104061_C0010  Co. DFFL_SRI_CPM2_201000237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C00100237104061_C0010	CS_OFFL_SIR_IOPM_2_20190523T154436_20190523T160954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
ten rearge Averaging Satus  Foods Range Avera	CS_OFFL_SIR_IOPM_2_20190523T161328_20190523T161725_C001	Ice Range Averaging Status	
SOFEL, SRI, JOPM 2, 201906231176242, 201906231176303, 2010  CS, OFFL, SRI, JOPM 2, 201906231176542, 201906231176303, 2010  CS, OFFL, SRI, JOPM 2, 201906231176542, 201906231176303, 2010  CS, OFFL, SRI, JOPM 2, 201906231176442, 20190623118000, 2010  CS, OFFL, SRI, JOPM 2, 20190623118000, 2019062311800, 20190623118000, 20190623118000, 20190623118000, 2019062311800, 20190623118000, 20	CS_OFFL_SIR_IOPM_2_20190523T161746_20190523T162111_C001	Ice Range Averaging Status	
CS_OFFL_SR_OPM_2_201956237175155_20195623717563_C001  CS_OFFL_SR_OPM_2_20195623717555_20195623717563_C001  CS_OFFL_SR_OPM_2_20195623717555_20195623717563_C001  CS_OFFL_SR_OPM_2_20195623717564_20195623718060_C001  CS_OFFL_SR_OPM_2_20195623719264_20195623718060_C001  CS_OFFL_SR_OPM_2_20195623719264_20195623719260_C001  CS_OFFL_SR_OPM_2_20195623719260_C001  CS_OFFL_SR_OPM_2_20195623719110_C019523711960_C001  CS_OFFL_SR_OPM_2_20195623711111_00195023711965_C001  CS_OFFL_SR_OPM_2_20195623711111_00195023711960_C001  CS_OFFL_SR_OPM_2_201956237121111_00195023711960_C001  CS_OFFL_SR_OPM_2_201956237121111_00195023711960_C001  CS_OFFL_SR_OPM_2_20195623711111_00195023711960_C001  CS_OFFL_SR_OPM_2_20195623712111_00195023711960_C001  CS_OFFL_SR_OPM_2_20195623712111_00195023711960_C001  CS_OFFL_SR_OPM_2_20195623712111_00195023711960_C001  CS_OFFL_SR_OPM_2_2019562371111_00195023711960_C001  CS_OFFL_SR_OPM_2_2019562371111_00195023711960_C001  CS_OFFL_SR_OPM_2_2019562371111_00195023711111_0	CS_OFFL_SIR_IOPM_2_20190523T162429_20190523T163543_C001	Ocean Range Averaging Status	
CS_OFF_SR_JOPM_2_201905231176562_01906231176509_0001  See Range Averaging Status  Lee Cozen Range Averaging Status  Lee Range Averagin	CS_OFFL_SIR_IOPM_2_20190523T164116_20190523T165110_C001	Ocean Range Averaging Status	
So OFFL_SIR_JOPM_2 20190823179349 20190823178005 0001 Ocean Range Averaging Status File Coan Range Averaging Status File Doan Range Averaging Status File Coan Range Averaging Status File Doan Range Averaging Status File Coan Range Averaging Status File Range Aver	CS_OFFL_SIR_IOPM_2_20190523T172227_20190523T175003_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_JOPM_2_201905237192691_201905237192840_C001  Ocean Range Averaging Status File Pocean Range Aver	CS_OFFL_SIR_IOPM_2_20190523T175155_20190523T175639_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T192421_20190523T192405_C001  CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T193706_C001  CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T193706_C001  CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T206515_C001  CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T206515_C001  CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T206515_C001  CS_OFFL_SIR_IOPM_2_20190523T208001_20190523T20655_C001  CS_OFFL_SIR_IOPM_2_20190523T208001_20190523T20650_C001  CS_OFFL_SIR_IOPM_2_20190523T208001_20190523T20650_C001  CS_OFFL_SIR_IOPM_2_20190523T204915_20190523T20650_C001  CS_OFFL_SIR_IOPM_2_20190523T204915_20190523T20650_C001  CS_OFFL_SIR_IOPM_2_20190523T205505_20190523T20766_C001  CS_OFFL_SIR_IOPM_2_20190523T205505_20190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T205505_20190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210523T21055_C001  CS_OFFL_SIR_IOPM_2_20190523T2105523_20190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210523T21055_C001  CS_OFFL_SIR_IOPM_2_20190523T210523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T210523_20190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T210523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T210523_00190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210523_00190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210523_00190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210523_00190523T210766_C001  CS_OFFL_SIR_IOPM_2_20190523T210540_00190523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T210540_00190523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T210540_00190523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T210540_00190523T21056_C001  CS_OFFL_SIR_IOPM_2_20190523T20018_00190523T20190_C001  CS_OFFL_SIR_IOPM_2_20190523T20018_00190523T20190_C001  CS_OFFL_SIR_IOPM_2_20190523T20018_00190523T20190_C001  CS_OFFL_SIR_IOPM_2_20190523T20018_00190523T00190_C001  CS_OFFL_SIR_IOPM_2_20190523T00004_20190523T00190_C001  CS_OFFL_SIR_IOPM_2_20190523T00004_20190523T00190_C001  CS_OFFL_SIR_IOPM_2_20190523T10000523T00190_C001  CS_OFFL_SIR_IOPM_2_20190523T10000523T00190523T00190_C001  CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20190523T175644_20190523T180015_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T102851_20190523T1028040_C0001  CS_OFFL_SIR_IOPM_2_20190523T103143_20190523T103706_C001  CS_OFFL_SIR_IOPM_2_20190523T1030143_20190523T103706_C001  CS_OFFL_SIR_IOPM_2_20190523T100001_20190523T103706_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T1037006_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T103000_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T103000_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T103000_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T103000_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T103000_C001  CS_OFFL_SIR_IOPM_2_20190523T200001_20190523T100001_20190523T100001_20190523T100001_20190523T100001_20190523T100001_20190523T1000001_20190523T1000000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190523T180409_20190523T183808_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_LOPM_2_20190523T194336_20190523T200515_C001  CS_OFFL_SIR_LOPM_2_20190523T194336_20190523T200515_C001  CS_OFFL_SIR_LOPM_2_20190523T200501_20190523T200515_C001  CS_OFFL_SIR_LOPM_2_20190523T200501_20190523T200500_C001  CS_OFFL_SIR_LOPM_2_20190523T200501_20190523T200500_C001  CS_OFFL_SIR_LOPM_2_20190523T200501_20190523T200500_C001  CS_OFFL_SIR_LOPM_2_20190523T200501_20190523T200500_C001  CS_OFFL_SIR_LOPM_2_20190523T200500_C001  CS_OFFL_SIR_LOPM_2_20190523T2005053_20190523T210726_C001  CS_OFFL_SIR_LOPM_2_20190523T200553_20190523T210726_C001  CS_OFFL_SIR_LOPM_2_20190523T212244_20190523T21050_C001  CS_OFFL_SIR_LOPM_2_20190523T212244_20190523T21500_C001  CS_OFFL_SIR_LOPM_2_20190523T212244_20190523T21500_C001  CS_OFFL_SIR_LOPM_2_20190523T21200_C001  CS_OFFL_SIR_LOPM_2_20190523T21200_C001  CS_OFFL_SIR_LOPM_2_20190523T2100523T21300_C001  CS_OFFL_SIR_LOPM_2_20190523T21000_C001  CS_OFFL_SIR_LOPM_2_20190523T21000_C001  CS_OFFL_SIR_LOPM_2_20190523T2000_C001  CS_OFFL_SIR_LOPM_2_20190523T2000_C001  CS_OFFL_SIR_LOPM_2_20190523T2000_C001  CS_OFFL_SIR_LOPM_2_20190523T2000_C001  CS_OFFL_SIR_LOPM_2_20190523T20000_C001  CS_OFFL_SIR_LOPM_2_20190523T20000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190523T192241_20190523T192451_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T19438_02190523T20615_C001  CS_OFFL_SIR_IOPM_2_20190523T20601_20190523T20615_C001  CS_OFFL_SIR_IOPM_2_20190523T20601_20190523T201600_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T21111_20190523T211605_C001  CS_OFFL_SIR_IOPM_2_20190523T21111_20190523T211605_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21263_C001  CS_OFFL_SIR_IOPM_2_20190523T21263_20190523T21261_C001  CS_OFFL_SIR_IOPM_2_20190523T206161_Q0190523T21261_C001  CS_OFFL_SIR_IOPM_2_20190523T206161_Q0190523T21261_C001  CS_OFFL_SIR_IOPM_2_20190523T206161_Q0190523T20616_C001  CS_OFFL_SIR_IOPM_2_20190523T206161_Q0190523T00622_C001  CS_OFFL_SIR_IOPM_2_20190523T00622_T00190523T00622_C001  CS_OFFL_SIR_IOPM_2_20190523T00622_T00190523T00622_C001  CS_OFFL_SIR_IOPM_2_20190523T00623T161740_C0190523T00623_C001  CS_OFFL_SIR_IOPM_2_20190523T00623T161740_C0190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T160527_00190523T161746_C001  CS_	CS_OFFL_SIR_IOPM_2_20190523T192651_20190523T192840_C001	Ocean Range Averaging Status	
CS_OFF_SIR_IOPM_2_20190523T200801_20190523T20550_C001  Ocean Range Averaging Status  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan Range Averaging Status Flag has been set for one or more records.  The Coccan	CS_OFFL_SIR_IOPM_2_20190523T193143_20190523T193706_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T20344_20190523T20349_0C001  CS_OFFL_SIR_IOPM_2_20190523T204915_20190523T205446_C001  CS_OFFL_SIR_IOPM_2_20190523T204915_20190523T21105_C001  CS_OFFL_SIR_IOPM_2_20190523T211111_20190523T211605_C001  CS_OFFL_SIR_IOPM_2_20190523T211112_20190523T211805_C001  CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T218282_C001  CS_OFFL_SIR_IOPM_2_20190523T212324_20190523T218282_C001  CS_OFFL_SIR_IOPM_2_20190523T212332_20190523T218282_C001  CS_OFFL_SIR_IOPM_2_20190523T212332_20190523T218243_C001  CS_OFFL_SIR_IOPM_2_20190523T212332_20190523T213434_C001  CS_OFFL_SIR_IOPM_2_20190523T20319_00523T231934_C001  CS_OFFL_SIR_IOPM_2_20190523T20310_00523T2031934_C001  CS_OFFL_SIR_IOPM_2_20190523T20310_00523T203100_C001  CS_OFFL_SIR_IOPM_2_20190523T20310_00523T203100_C001  CS_OFFL_SIR_IOPM_2_20190523T203001_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T03001_20190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T16176226_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T16176226_C001  CS_OFFL_SIR_IOPM_2_20190523T163004_20190523T16176226_C001  CS_OFFL_SIR_IOPM_2_20190523T163004_20190523T16176226_C001  CS_OFFL_SIR_IOPM_2_20190523T163004_20190523T1617626_C001  CS_OFFL_SIR_IOPM_2_20190523T14355_C001  CS_OFFL_SI	CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T200515_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T204915_20190523T20546_C001  CS_OFFL_SIR_IOPM_2_20190523T20553_20190523T2056_C001  CS_OFFL_SIR_IOPM_2_20190523T211111_20190523T211605_C001  CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T212829_C001  CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T212829_C001  CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T215458_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T215458_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T215458_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T215458_C001  CS_OFFL_SIR_IOPM_2_20190523T2053_20190523T224342_C001  CS_OFFL_SIR_IOPM_2_20190523T2053_20190523T20535_00100000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190523T200801_20190523T201650_C001	Ocean Range Averaging Status	
Cean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20190523T205553_20190523T211056_C001  CS_OFFL_SIR_IOPM_2_20190523T211111_20190523T211056_C001  CS_OFFL_SIR_IOPM_2_20190523T2111122429_C001  CS_OFFL_SIR_IOPM_2_20190523T2122269_C001  CS_OFFL_SIR_IOPM_2_20190523T212232_000523T212546_C001  CS_OFFL_SIR_IOPM_2_20190523T212639_20190523T215456_C001  CS_OFFL_SIR_IOPM_2_20190523T212639_20190523T215456_C001  CS_OFFL_SIR_IOPM_2_20190523T212639_20190523T215456_C001  CS_OFFL_SIR_IOPM_2_20190523T221639_20190523T215456_C001  CS_OFFL_SIR_IOPM_2_20190523T221639_20190523T231934_C001  CS_OFFL_SIR_IOPM_2_20190523T230218_20190523T231934_C001  CS_OFFL_SIR_IOPM_2_20190523T230218_20190523T239394_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T030901_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T030901_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T030903_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T030903_C001  CS_OFFL_SIR_IOPM_2_20190523T0309023_T003090523T06156_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T16416_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T16226_C001  Coean Range Averaging Status  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status	CS_OFFL_SIR_IOPM_2_20190523T202944_20190523T203309_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T211111_20190523T211605_C001  CS_OFFL_SIR_IOPM_2_20190523T211111_20190523T211605_C001  CS_OFFL_SIR_IOPM_2_20190523T212829_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T2128458_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T2145458_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T214342_C001  CS_OFFL_SIR_IOPM_2_20190523T221639_20190523T224342_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T23934_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T23934_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T23916_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T061810_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T07842_20190523T07842_20190523T07842_20190523T07842_20190523T06181746_C001  CS_OFFL_SIR_IOPM_2_20190523T167140_20190523T16746_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T16746_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T16740_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T114517_C001  CS_OFFL_SIR_IOPM_2_20190523T11435_20190523T114517_C001  CCS_OFFL_SIR_IOPR_2_20190523T11435_20190523T114517_C001  CCS_OFFL_SIR_IOPR_2_20190523T114515_2001  CCS_OFFL_SIR_IOPR_2_20190523T114515_2001  CCS_OFFL_SIR_IOPR_2_20190523T114515_2001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPM_2_20190523T204915_20190523T205446_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T212829_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T212839_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T215458_C001  CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T224342_C001  CS_OFFL_SIR_IOPM_2_20190523T221639_20190523T224342_C001  CS_OFFL_SIR_IOPM_2_20190523T230218_20190523T231934_C001  CS_OFFL_SIR_IOPM_2_20190523T2322415_20190523T231934_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T039901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T039901_20190523T061166_C001  CS_OFFL_SIR_IOPM_2_20190523T061810_20190523T061266_C001  CS_OFFL_SIR_IOPM_2_20190523T061810_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T1061740_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T167140_20190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T16226_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T1035004_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T1035004_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T1035004_20190523T102420_C001  CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20190523T205553_20190523T210726_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T212243_20190523T212458_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status F	CS_OFFL_SIR_IOPM_2_20190523T211111_20190523T211605_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T221639_20190523T224342_C001  CS_OFFL_SIR_IOPM_2_20190523T220218_20190523T2231934_C001  CS_OFFL_SIR_IOPM_2_20190523T230218_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T03100_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T03100_C001  CS_OFFL_SIR_IOPM_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPM_2_20190523T05004_20190523T102400_C001  CS_OFFL_SIR_IOPM_2_20190523T1035004_20190523T102400_C001  CS_OFFL_SIR_IOPM_2_20190523T10346_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T114335_20190523T112377_C001  CS_OFFL_SIR_IOPM_2_20190523T114335_20190523T112377_C001  CCEan Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Statu	CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T212829_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T230218_20190523T231934_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status Flag has been set for one or more records.  The Coean Range Averaging Status F	CS_OFFL_SIR_IOPM_2_20190523T212832_20190523T215458_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T232916_C001  CS_OFFL_SIR_IOPM_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPM_2_20190523T061810_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T061810_20190523T062156_C001  CS_OFFL_SIR_IOPM_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T070923_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPM_2_20190523T161740_20190523T162226_C001  CS_OFFL_SIR_IOPM_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T035101_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPM_2_20190523T114335_20190523T1121327_C001  CS_OFFL_SIR_IOPM_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPM_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPM_2_20190523T134657_20190523T121327_C001  CS_OFFL_SIR_IOPM_2_20190523T134657_20190523T121327_C001  CS_OFFL_SIR_IOPM_2_20190523T134657_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T14514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T145040  CCS_OFFL_SIR_IOPR_2_20190523T140	CS_OFFL_SIR_IOPM_2_20190523T221639_20190523T224342_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPN_2_20190523T030901_20190523T031100_C001  CS_OFFL_SIR_IOPN_2_20190523T061810_20190523T062156_C001  CS_OFFL_SIR_IOPN_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPN_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPN_2_20190523T035004_20190523T035101_C001  CS_OFFL_SIR_IOPR_2_20190523T103406_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T103406_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T112335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T112807_20190523T1121327_C001  CS_OFFL_SIR_IOPR_2_20190523T12807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T12807_20190523T135152_C001  CCEAR Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging S	CS_OFFL_SIR_IOPM_2_20190523T230218_20190523T231934_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190523T061810_20190523T062156_C001  CS_OFFL_SIR_IOPN_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T16226_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T16226_C001  CS_OFFL_SIR_IOPN_2_20190523T102346_20190523T102240_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T10240_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T10240_C001  CS_OFFL_SIR_IOPR_2_20190523T14335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T12327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T1340738_20190523T14514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T14514_C001  CS_OFFL_SIR_IOPR_2_2019	CS_OFFL_SIR_IOPM_2_20190523T232415_20190523T232916_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190523T070842_20190523T070923_C001  CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPN_2_20190523T035004_20190523T035101_C001  CS_OFFL_SIR_IOPR_2_20190523T035004_20190523T035101_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CC_CORN_Range Averaging Status  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CC_CORN_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 Ra	CS_OFFL_SIR_IOPN_2_20190523T030901_20190523T031100_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001  CS_OFFL_SIR_IOPR_2_20190523T05004_20190523T05004_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPN_2_20190523T061810_20190523T062156_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T16226_C001  CS_OFFL_SIR_IOPN_2_20190523T10523T16226_C001  CS_OFFL_SIR_IOPR_2_20190523T035004_20190523T035101_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPN_2_20190523T070842_20190523T070923_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T1102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CCEAR Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001  CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CC_COMPRISIN_IOPR_2_20190523T140738_20190523T141514_C001  CC_COMPRISIN_IOPR_2_20190523T	CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T202944_C001  CS_OFFL_SIR_IOPR_2_20190523T202920_20190523T202944_C001  CS_OFFL_SIR_IOPR_2_20190523T202944_C001	CS_OFFL_SIR_IOPR_2_20190523T035004_20190523T035101_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001  CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_	CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190523T120207_20190523T121327_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  Ocean Range Averaging Status  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging 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_IOPR_2_20190523T114335_20190523T114517_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_201905231140736_201905231141514_C001  CS_OFFL_SIR_IOPR_2_201905231140736_201905231141514_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPR_2_201905231140736_201905231141514_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20190523T202920_20190523T202944_C001	Ocean Range Averaging Status	

## 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFE SIR IOPM 2 201905231001026 201905231001948 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_20190523T003755_20190523T003936_C001		The Ice Backscatter Averaging Status Flag has been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	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.
CS_OFFL_SIR_IOPM_2_20190523T012224_20190523T012522_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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CS_OFFL_SIR_IOPM_2_20190523T023202_20190523T023232_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_20190523T023355_20190523T025733_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_20190523T030033_20190523T030901_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T031211_20190523T033713_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_20190523T041035_20190523T041943_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_20190523T042516_20190523T043620_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_20190523T044245_20190523T044702_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T045100_20190523T051714_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_20190523T054315_20190523T055857_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_20190523T060427_20190523T061516_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_20190523T062156_20190523T062741_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T062924_20190523T063522_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_20190523T070643_20190523T070745_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_20190523T072055_20190523T075430_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_20190523T080101_20190523T080613_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T080916_20190523T082740_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_20190523T085959_20190523T092812_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T092823_20190523T093314_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T094107_20190523T094522_C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T094906_20190523T102324_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T102324_20190523T102346_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T102630_20190523T102737_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T103931_20190523T105112_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T105740_20190523T111240_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190523T111437_20190523T111959_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T113111_20190523T114335_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_20190523T114517_20190523T120219_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_20190523T122449_20190523T123434_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_20190523T123636_20190523T125129_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_20190523T125403_20190523T125858_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T125903_20190523T125910_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T125934_20190523T130051_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T130706_20190523T131050_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_20190523T132503_20190523T133800_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_20190523T141514_20190523T143036_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_20190523T143342_20190523T143826_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOPM 2 20190523T144505 20190523T150751 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T150802_20190523T151143_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T154436_20190523T160954_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T161328_20190523T161725_C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T161746_20190523T162111_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T162429_20190523T163543_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T164116_20190523T165110_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190523T172227_20190523T175003_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190523T175155_20190523T175639_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set to one or more
CS_OFFL_SIR_IOPM_2_20190523T175644_20190523T180015_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190523T180409_20190523T183808_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_20190523T192241_20190523T192451_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_20190523T192651_20190523T192840_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_20190523T193143_20190523T193706_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T194336_20190523T200515_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
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CS_OFFL_SIR_IOPM_2_20190523T200801_20190523T201650_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_20190523T202944_20190523T203309_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_20190523T204915_20190523T205446_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_20190523T205553_20190523T210726_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_20190523T211111_20190523T211605_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190523T212244_20190523T212829_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_20190523T212832_20190523T215458_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_20190523T221639_20190523T224342_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_20190523T230218_20190523T231934_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_20190523T232415_20190523T232916_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_20190523T232918_20190523T233151_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190523T030901_20190523T031100_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190523T061810_20190523T062156_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190523T070842_20190523T070923_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190523T161740_20190523T161746_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190523T162111_20190523T162226_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T035004_20190523T035101_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T102346_20190523T102420_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T114335_20190523T114517_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T120807_20190523T121327_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T134657_20190523T135152_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T140738_20190523T141514_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190523T202920_20190523T202944_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

### 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

## 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:

0

## 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:

### 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:

### 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:

29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190522T234530_20190523T003508_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190523T003508_20190523T012444_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_220190523T012444_20190523T021422_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_220190523T021422_20190523T030358_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_220190523T030358_20190523T035335_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_220190523T035335_20190523T044311_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_220190523T044311_20190523T053249_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_220190523T053249_20190523T062225_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_220190523T062225_20190523T071202_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_220190523T071202_20190523T080138_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_220190523T080138_20190523T085116_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_220190523T085116_20190523T094052_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T094052_20190523T103029_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_220190523T103029_20190523T112005_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_220190523T112005_20190523T120943_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_220190523T120943_20190523T125919_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_220190523T125919_20190523T134856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T134856_20190523T143833_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_220190523T143833_20190523T152810_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_220190523T152810_20190523T161746_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_220190523T161746_20190523T170724_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_220190523T170724_20190523T175700_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_220190523T175700_20190523T184637_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_220190523T184637_20190523T193614_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_220190523T193614_20190523T202551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T202551_20190523T211527_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_220190523T211527_20190523T220504_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T220504_20190523T225440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T225440_20190523T234418_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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### 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.

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190522T234530_20190523T003508_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220190523T003508_20190523T012444_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_220190523T012444_20190523T021422_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_220190523T021422_20190523T030358_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_220190523T030358_20190523T035335_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_220190523T035335_20190523T044311_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_220190523T044311_20190523T053249_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_220190523T053249_20190523T062225_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_20190523T062225_20190523T071202_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_220190523T071202_20190523T080138_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_20190523T080138_20190523T085116_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_220190523T085116_20190523T094052_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_220190523T094052_20190523T103029_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_220190523T103029_20190523T112005_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_220190523T112005_20190523T120943_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_220190523T120943_20190523T125919_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_220190523T125919_20190523T134856_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_220190523T134856_20190523T143833_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_220190523T143833_20190523T152810_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_220190523T152810_20190523T161746_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_220190523T161746_20190523T170724_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_220190523T170724_20190523T175700_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_220190523T175700_20190523T184637_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_220190523T184637_20190523T193614_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_220190523T193614_20190523T202551_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_220190523T202551_20190523T211527_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_220190523T211527_20190523T220504_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_220190523T220504_20190523T225440_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_220190523T225440_20190523T234418_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_220190522T234530_20190523T003508_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T003508_20190523T012444_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T012444_20190523T021422_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T021422_20190523T030358_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T030358_20190523T035335_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T035335_20190523T044311_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T044311_20190523T053249_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T062225_20190523T071202_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T071202_20190523T080138_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T085116_20190523T094052_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T094052_20190523T103029_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T103029_20190523T112005_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T112005_20190523T120943_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T120943_20190523T125919_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T125919_20190523T134856_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T143833_20190523T152810_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T152810_20190523T161746_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T161746_20190523T170724_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T170724_20190523T175700_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T175700_20190523T184637_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T184637_20190523T193614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_IOP_220190523T193614_20190523T202551_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T202551_20190523T211527_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T211527_20190523T220504_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T220504_20190523T225440_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T225440_20190523T234418_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190523T234418_20190524T003354_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.