



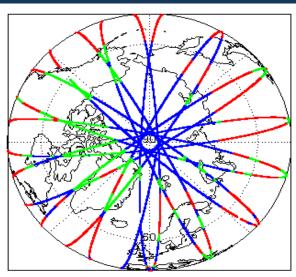
## 1. Overview

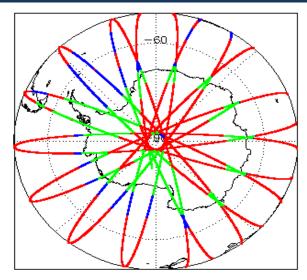
Report Production:	01-May-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

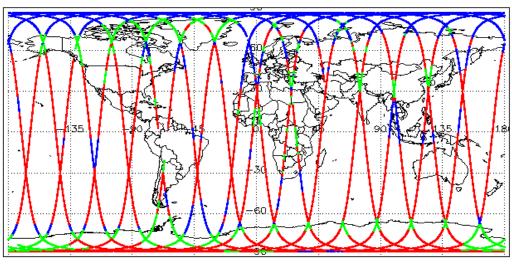
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

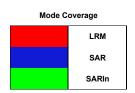
Mission / Instrument News		
31-Mar-2019	None	
01-Apr-2019	None	
02-Apr-2019	Nothing planned	

# 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. GOP 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 GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

0

### 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 some products over land, but this is to be expected.

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20190401T082535_20190401T084140_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190401T150748_20190401T151719_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190401T151921_20190401T153457_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190401T200454_20190401T203314_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190401T204529_20190401T212038_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T004931_20190401T005454_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T032201_20190401T032423_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T040115_20190401T040457_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T041243_20190401T041428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T063220_20190401T063235_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T063337_20190401T063407_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T072946_20190401T073237_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T094821_20190401T094914_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T095111_20190401T095158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T131019_20190401T131133_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T144547_20190401T145047_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190401T193849_20190401T194445_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190401T021815_20190401T022406_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190401T113215_20190401T114227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190401T151720_20190401T151921_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. GOP 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:

0

## 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

Product	Test Failed	Description   The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T001505_20190401T001937_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20190401T002021_20190401T003755_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T004050_20190401T004236_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T004723_20190401T004930_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T005629_20190401T012556_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T014530_20190401T020352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T020447_20190401T021814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T023000_20190401T023341_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T023521_20190401T025100_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T025302_20190401T030224_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T032034_20190401T032201_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T033012_20190401T034147_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T035753_20190401T035909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T040457_20190401T041242_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T041431_20190401T043003_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T050804_20190401T054052_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T054317_20190401T054530_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20190401T054542 20190401T055136 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T055356_20190401T061954_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T065151_20190401T070227_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20190401T070802 20190401T071954 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T072527_20190401T072945_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T082535_20190401T084140_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T084243_20190401T085859_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T090437_20190401T091016_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T091135_20190401T091758_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T100354_20190401T103821_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T104341_20190401T104852_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T105037_20190401T111033_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T114227_20190401T121607_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20190401T123001_20190401T125827_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T125851_20190401T130617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T130832_20190401T131019_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T132441_20190401T133317_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T133758_20190401T135543_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T135720_20190401T140239_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T140258_20190401T140502_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T141350_20190401T142612_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T142819_20190401T144031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T144256_20190401T144441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T150748_20190401T151719_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T151921_20190401T153457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T153645_20190401T154150_C001	Ice Range Averaging Status	The loc Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T154941_20190401T155154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T160740_20190401T161211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
		records.

CS_OPFL_SIR_COPM_2_20100401116276_20104011171905_C001  CS_OPFL_SIR_COPM_2_20100401171635_20104011717205_C001  CS_OPFL_SIR_COPM_2_201004011716270_20104011715224_C001  CS_OPFL_SIR_COPM_2_20104011716270_20104011715224_C001  CS_OPFL_SIR_COPM_2_20104011716270_20104011715224_C001  CS_OPFL_SIR_COPM_2_20104011716270_201040117160007_C001  CS_OPFL_SIR_COPM_2_201040117160002_201040117100007_C001  CS_OPFL_SIR_COPM_2_201040117160002_201040117100007_C001  CS_OPFL_SIR_COPM_2_201040117100002_201040117100007_C001  CS_OPFL_SIR_COPM_2_201040117100002_201040117100007_C001  CS_OPFL_SIR_COPM_2_20104011700004_20104011700007_C001  CS_OPFL_SIR_COPM_2_20104011700042_20104011700040_C001  CS_OPFL_SIR_COPM_2_2010401170044_20104011700040_C001  CS_OPFL_SIR_COPM_2_2010401170044_20104011700040_C001  CS_OPFL_SIR_COPM_2_2010401170044_20104011700040_C001  CS_OPFL_SIR_COPM_2_2010401170044_20104011700040_C001  CS_OPFL_SIR_COPM_2_2010401170044_20104011700040_C001  CS_OPFL_SIR_COPM_2_2010401170044_20104011700400_C001  CS_OPFL_SIR_COPM_2_20104011700404_20104011700400_C001  CS_OPFL_SIR_COPM_2_20104011700400_C00104010400_C001  CS_OPFL_SIR_COPM_2_20104011700400_C00104010400_C001  CS_OPFL_SIR_COPM_2_20104011704000_C00104010400_C001  CS_OPFL_SIR_C	CS_OFFL_SIR_GOPM_2_20190401T161326_20190401T162038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFF_SIR_GOPM_2_201904011717613_201904017172352_CD01  CS_OFF_SIR_GOPM_2_20190401717602_201904017172352_CD01  CS_OFF_SIR_GOPM_2_201904017176032_CD0140071723532_CD01  CS_OFF_SIR_GOPM_2_201904017176032_CD0140071723532_CD01  CS_OFF_SIR_GOPM_2_201904017176032_CD0140071723532_CD01  CS_OFF_SIR_GOPM_2_20190401776032_CD0140071723532_CD01  CS_OFF_SIR_GOPM_2_20190401776032_CD0140071723532_CD01  CS_OFF_SIR_GOPM_2_201904017720052_CD0140071723532_CD01  CS_OFF_SIR_GOPM_2_201904017720052_CD01001  CS_OFF_SIR_GOPM_2_201904017720052_CD0100100000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20190401T165716_20190401T171404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM _2_2019040117172653_2019040117172514_C001  CS_OFFL_SIR_GOPM _2_201904011719070_201904011719007_C001  CS_OFFL_SIR_GOPM _2_201904011719007_20190401719007_C001  CS_OFFL_SIR_GOPM _2_201904011719007_201904017191907_C001  CS_OFFL_SIR_GOPM _2_201904011719007_201904017191907_C001  CS_OFFL_SIR_GOPM _2_201904011719007_201904017191907_C001  CS_OFFL_SIR_GOPM _2_201904011719007_201904017191907_C001  CS_OFFL_SIR_GOPM _2_201904011719007_20190401710907_C001  CS_OFFL_SIR_GOPM _2_201904011719007_20190401710907_C001  CS_OFFL_SIR_GOPM _2_201904011720907_201904017109007_C001  CS_OFFL_SIR_GOPM _2_201904017120907_201904017109007_C001  CS_OFFL_SIR_GOPM _2_201904017120907_201904017109007_C001  CS_OFFL_SIR_GOPM _2_20190401720907_C001  CS_OFFL_SIR_GOPM _2_20190401720907_C0010  CS_OFFL_SIR_GOPM _2_20190401720907_C00100100170007_C0010  CS_O	CS_OFFL_SIR_GOPM_2_20190401T171631_20190401T172106_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_2010401718207_0109401719007_001  to Renge Averaging Status  to Renge Averaging Status  The Locan Range Averaging Status Flag has been set for one or more records.  The Locan Range Averaging Status Flag has been set for one or more records.  The Locan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range	CS_OFFL_SIR_GOPM_2_20190401T172653_20190401T175224_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM _2_201904017182050_20190401719380_C001  CS_OFFL_SIR_GOPM _2_201904017192052_20190401719380_C001  CS_OFFL_SIR_GOPM _2_201904017192054_20190401719380_C001  CS_OFFL_SIR_GOPM _2_201904017192054_20190401719380_C001  CS_OFFL_SIR_GOPM _2_20190401719380_C001  CS_OFFL_SIR_GOPM _2_20190401719380_C001  CS_OFFL_SIR_GOPM _2_20190401719380_C001  CS_OFFL_SIR_GOPM _2_20190401720064_20190401720932_C001  CS_OFFL_SIR_GOPM _2_20190401720064_C001  CS_OFFL_SIR_GOPM _2_20190401720064_C001  CS_OFFL_SIR_GOPM _2_20190401720064_C001  CS_OFFL_SIR_GOPM _2_20190401720064_C0010  CS_OFFL_SIR_GOPM _2_20190401720064_C00100010  CS_OFFL_SIR_GOPM _2_20190401720064_C0010001000100010001000010000100001000	CS_OFFL_SIR_GOPM_2_20190401T182710_20190401T185339_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T190028_20190401T191819_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T102340_20190401T109390_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T102340_20190401T109380_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T1020340_20190401T109380_C001  Osean Range Averaging Status  In Cosan Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPM_2_20190401T203450_20190401T20380_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T203500_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T20330_C0190401T20330_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T20330_C0190401T20350_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T20350_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T20300_C0190401T20350_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T00350_C001  Osean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190	CS_OFFL_SIR_GOPM_2_20190401T185502_20190401T190007_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
Coop FFL_SIR_GOPM_2_20190401T190509_20190401T190514_0011  Coop FFL_SIR_GOPM_2_20190401T290532_0190401T190514_0011  Coop FFL_SIR_GOPM_2_20190401T290542_0190401T290554_0011  Coop FFL_SIR_GOPM_2_20190401T290542_0190401T290554_0011  Coop FFL_SIR_GOPM_2_20190401T290542_0190401T290554_0011  Coop FFL_SIR_GOPM_2_20190401T290542_0190401T290554_0011  Coop FFL_SIR_GOPM_2_20190401T290542_0190401T290554_0011  Coop FFL_SIR_GOPM_2_20190401T290544_0190401T290554_0011  Coop FFL_SIR_GOPM_2_20190401T290544_0190401T29054_0011  Coop FFL_SIR_GOPM_2_20190401T29054_0190401T29054_0011  Coop FFL_SIR_GOPM_2_20190401T29054_0190401T29054_0011  Coop FFL_SIR_GOPM_2_20190401T29054_0190401T29054_0011  Coop FFL_SIR_GOPM_2_20190401T29054_0190401T29055_0011  Coop FFL_SIR_GOPM_2_20190401T29055_0011  Coop FFL_SIR_GOPM_2_20190401T29055_001100555_0011  Coop FFL_SIR_GOPM_2_20190401T291055_001100555_0011  Coop FFL_SIR_GOPM_2_20190401T291055_0010100555_0011  Coop FFL_SIR_GOPM_2_20190401T190550_20190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T190505_00190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T190505_00190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T105505_0011  Coop FFL_SIR_GOPM_2_20190401T105505_001100555_0011  Coop FFL_SIR_GOPM_2_20190401T105505_001100555_0011  Coop FFL_SIR_G	CS_OFFL_SIR_GOPM_2_20190401T190026_20190401T190350_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SR_GOPM_2_20190401T20345_20190401T20383_C001  CS_OFFL_SR_GOPM_2_20190401T20343_20190401T20383_C001  CS_OFFL_SR_GOPM_2_20190401T20343_20190401T20383_C001  CS_OFFL_SR_GOPM_2_20190401T20343_20190401T20383_C001  CS_OFFL_SR_GOPM_2_20190401T20343_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T20343_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2034_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2034_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2032_20190401T2038_C001  CS_OFFL_SR_GOPM_2_20190401T2032_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2032_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2032_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2032_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2032_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T2033_20190401T2030_C001  CS_OFFL_SR_GOPM_2_20190401T0001_C001_C001_C001_C001_C001_C001_C0	CS_OFFL_SIR_GOPM_2_20190401T190609_20190401T191819_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401720439_20190401723390_C001  CS_OFFL_SIR_GOPM_2_20190401720439_2019040172339_C001  CS_OFFL_SIR_GOPM_2_20190401720442_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401720472042_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401720472042_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722047_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722050_20190401722073_C001  CS_OFFL_SIR_GOPM_2_20190401722050_20190401722050_C001  CS_OFFL_SIR_GOPM_2_20190401722050_20190401722505_C001  CS_OFFL_SIR_GOPM_2_20190401722050_20190401722505_C001  CS_OFFL_SIR_GOPM_2_20190401723032_20190401723050_C001  CS_OFFL_SIR_GOPM_2_20190401723032_20190401723050_C001  CS_OFFL_SIR_GOPM_2_2019040172307_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_2019040172307_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_20190401723050_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_20190401723050_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_20190401723050_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_20190401723050_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_2019040172050_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_2019040172050_C00190401723050_C001  CS_OFFL_SIR_GOPM_2_201904017217272_0190401722050_C001  CS_OFFL_SIR_GOPM_2_2019040172172720_C00190401722050_C0019040172050_C0019	CS_OFFL_SIR_GOPM_2_20190401T192354_20190401T193849_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_201904017203429_201904017213236_C001  CS_OFFL_SIR_GOPM_2_20190401721336_201904017213236_C001  CS_OFFL_SIR_GOPM_2_20190401722342_20190401722735_C001  CS_OFFL_SIR_GOPM_2_20190401722442_20190401722735_C001  CS_OFFL_SIR_GOPM_2_20190401722475_20190401722735_C001  CS_OFFL_SIR_GOPM_2_20190401722475_20190401722735_C001  CS_OFFL_SIR_GOPM_2_20190401722332_20190401722735_C001  CS_OFFL_SIR_GOPM_2_20190401722332_20190401722735_C001  CS_OFFL_SIR_GOPM_2_20190401722332_20190401722475_C001  CS_OFFL_SIR_GOPM_2_20190401722332_20190401722475_C001  CS_OFFL_SIR_GOPM_2_20190401722332_20190401722475_C001  CS_OFFL_SIR_GOPM_2_20190401723323_20190401722595_C001  CS_OFFL_SIR_GOPM_2_20190401723323_20190401722595_C001  CS_OFFL_SIR_GOPM_2_20190401723323_20190401722595_C001  CS_OFFL_SIR_GOPM_2_20190401723323_20190401722595_C001  CS_OFFL_SIR_GOPM_2_20190401723323_201904017235940_C001  CS_OFFL_SIR_GOPM_2_201904017233232_201904017235940_C001  CS_OFFL_SIR_GOPM_2_201904017233237_20190401725595_C001  CS_OFFL_SIR_GOPM_2_201904017233237_20190401725595_C001  CS_OFFL_SIR_GOPM_2_201904017233237_20190401725596_C001  CS_OFFL_SIR_GOPM_2_201904017233237_20190401725596_C001  CS_OFFL_SIR_GOPM_2_20190401723337_20190401725506_C001  CS_OFFL_SIR_GOPM_2_20190401712377_20190401712220_C001  CS_OFFL_SIR_GOPM_2_20190401712377_201904017122220_C001  CS_OFFL_SIR_GOPM_2_201904017122477_201904017122220_C001  CS_OFFL_SIR_GOPM_2_201904017122477_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_20190401712474_201904017122220_C001  CS_OFFL_SIR_GOPM_2_201904017124404_201904017122225_C001  CS_OFFL_SIR_GOPM_2_201904017124440_20190401712225_C001  CS_OFFL_SIR_GOPM_2_201904017124404_20190401712225_C001  CS_OFFL_SIR_GOPM_2_20190401704404_201904	CS_OFFL_SIR_GOPM_2_20190401T200454_20190401T203314_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401T213336_20190401T2213529_C001  Coean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more corocts.  CS_OFFL_SIR_GOPM_2_20190401T221320_2010  CS_OFFL_SIR_GOPM_2_20190401T221320_2010  CS_OFFL_SIR_GOPM_2_20190401T221320_2010  CS_OFFL_SIR_GOPM_2_20190401T221320_2010  CS_OFFL_SIR_GOPM_2_20190401T221320_2010  CS_OFFL_SIR_GOPM_2_20190401T221320_2010  CS_OFFL_SIR_GOPM_2_20190401T221320_20190401T22130_2010  CS_OFFL_SIR_GOPM_2_20190401T22300_20190401T22130_2010  CS_OFFL_SIR_GOPM_2_20190401T22300_20190401T231805_C001  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T231840_C001  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T235140_C001  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T235140_C001  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T235140_C001  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T235140_C001  CS_OFFL_SIR_GOPM_2_20190401T23387_20190401T235140_C001  CS_OFFL_SIR_GOPM_2_20190401T05518_20190401T2256_C001  CS_OFFL_SIR_GOPM_2_20190401T05535_C001  CS_OFFL_SIR_GOPM_2_20190401T05535_C001	CS_OFFL_SIR_GOPM_2_20190401T203443_20190401T203920_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPM_2_201904011729342_0190401722933_2001  Ocean Range Averaging Status   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag has been set for one or more records.   The Cocan Range Averaging Status   Flag	CS_OFFL_SIR_GOPM_2_20190401T204529_20190401T212038_C001	Ocean Range Averaging Status	
CS_OFF_SIR_GOPM_2_20190401722432_20190401722133_C001  Ocean Range Averaging Status  The coccas.  The coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.  The Coccas Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOPM_2_20190401T213336_20190401T213529_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401722146_2001  CS_OFFL_SIR_GOPM_2_20190401722146_C001  CS_OFFL_SIR_GOPM_2_20190401722457_20190401722455_C001  CS_OFFL_SIR_GOPM_2_201904017225939_20190401722595_C001  CS_OFFL_SIR_GOPM_2_201904017231216_20190401722595_C001  CS_OFFL_SIR_GOPM_2_201904017231216_20190401723126_C0190401723126_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C01904017233637_C0190401723515_C001  CS_OFFL_SIR_GOPM_2_201904017073557_201904017073555_C001  CS_OFFL_SIR_GOPM_2_201904017073557_201904017073555_C001  CS_OFFL_SIR_GOPM_2_20190401707357_2019040170735536_C001  CS_OFFL_SIR_GOPM_2_201904017121737_2019040170735536_C001  CS_OFFL_SIR_GOPM_2_201904017121737_201904017122120_C001  CS_OFFL_SIR_GOPM_2_2019040171195500_C01904017125500_C01  CS_OFFL_SIR_GOPM_2_201904017121300_201904017125240_C001  CS_OFFL_SIR_GOPM_2_201904017125500_C01904017125500_C01904017125500_C01904017125500_C01904017125500_C01904017125500_C01904017125500_C01904017125500_C01904017125500_C0190401712500_C0190401712500_C0190401712500_C0190401712500_C0190401712500_C0190401712500_C0190401712500_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C01904017043004_C0190401704017040170401704017040170401704	CS_OFFL_SIR_GOPM_2_20190401T220444_20190401T220733_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401T221457_20190401T22596_CO01  CS_OFFL_SIR_GOPM_2_20190401T22503_20190401T225951_CO01  CS_OFFL_SIR_GOPM_2_20190401T22503_20190401T225051_CO01  CS_OFFL_SIR_GOPM_2_20190401T231216_20190401T23504_CO01  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T23549_CO01  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T235149_CO01  CS_OFFL_SIR_GOPM_2_20190401T23337_20190401T235143_CO01  CS_OFFL_SIR_GOPM_2_20190401T03337_20190401T055351_CO01  CS_OFFL_SIR_GOPM_2_20190401T055352_CO01  CS_OFFL_SIR_GOPM_2_20190401T055352_CO01  CS_OFFL_SIR_GOPM_2_20190401T121737_20190401T072526_CO01  CS_OFFL_SIR_GOPM_2_20190401T121737_20190401T122120_CO01  CS_OFFL_SIR_GOPM_2_20190401T195500_CO01  CS_OFFL_SIR_GOPM_2_20190401T195500_CO01  CS_OFFL_SIR_GOPM_2_20190401T195500_CO01  CS_OFFL_SIR_GOPM_2_20190401T1221300_20190401T221425_CO01  CS_OFFL_SIR_GOPM_2_20190401T1221300_20190401T221425_CO01  CS_OFFL_SIR_GOPM_2_20190401T124130_CO01  CS_OFFL_SIR_GOPM_2_20190401T04449_20190401T04254_CO01  CS_OFFL_SIR_GOPM_2_20190401T04449_20190401T04445_CO01  CS_OFFL_SIR_GOPM_2_20190401T04449_20190401T04450_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T04455_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T04455_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T04455_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T04455_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T043062_CO01  CS_OFFL_SIR_GOPM_2_20190401T040304_20190401T040304_CO0100401T040040_20190401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO0100401T040040_CO01004	CS_OFFL_SIR_GOPM_2_20190401T220933_20190401T221239_C001	Ocean Range Averaging Status	
Cean Range Averaging Status  CS_OFFL_SIR_GOPM_2_20190401T22539_20190401T225951_C001  CS_OFFL_SIR_GOPM_2_20190401T231216_20190401T225951_C001  CS_OFFL_SIR_GOPM_2_20190401T231216_20190401T233649_C001  CS_OFFL_SIR_GOPM_2_20190401T233349_C001  CS_OFFL_SIR_GOPM_2_20190401T233349_C001  CS_OFFL_SIR_GOPM_2_20190401T233349_C001  CS_OFFL_SIR_GOPM_2_20190401T233349_C001  CS_OFFL_SIR_GOPM_2_20190401T055136_20190401T055136_C001  CS_OFFL_SIR_GOPM_2_20190401T072557_20190401T075536_C001  CS_OFFL_SIR_GOPM_2_20190401T072357_20190401T072556_C001  CS_OFFL_SIR_GOPM_2_20190401T072357_20190401T07256_C001  CS_OFFL_SIR_GOPM_2_20190401T121737_20190401T12120_C001  CS_OFFL_SIR_GOPM_2_20190401T121737_20190401T1250001  CS_OFFL_SIR_GOPM_2_20190401T121737_20190401T125300_C001  CS_OFFL_SIR_GOPM_2_20190401T221300_20190401T12520001  CS_OFFL_SIR_GOPM_2_20190401T221300_20190401T221425_C001  CS_OFFL_SIR_GOPM_2_20190401T221300_20190401T122130_C001  CS_OFFL_SIR_GOPM_2_20190401T055130_C001  CS_OFFL_SIR_GOPM_2_20190401T051300_20190401T05500_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T04500_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T04500_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T041431_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T041431_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T041431_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T041431_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T04305_C001  CS_OFFL_SIR_GOPM_2_20190401T041449_20190401T04305_C001  CS_OFFL_SIR_GOPM_2_20190401T0430559_20190401T04305_C001  CS_OFFL_SIR_GOPM_2_20190401T0430559_20190401T0400505_C001  CS_OFFL_SIR_GOPM_2_20190401T04050559_20190401T0405055_C001  CS_OFFL_SIR_GOPM_2_20190401T04050559_20190401T0405055_C001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_SIR_GOPM_2_20190401T0405055_001  CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20190401T221426_20190401T221946_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401T231216_20190401T23160_CO01  CS_OFFL_SIR_GOPM_2_20190401T231216_20190401T233649_CO01  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for	CS_OFFL_SIR_GOPM_2_20190401T222457_20190401T224753_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401T233202_20190401T233649_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPN_2_20190401T072357_20190401T072526_C001  CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001  CS_OFFL_SIR_GOPN_2_20190401T195520_20190401T195530_C001  Ocean Range Averaging Status  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221425_C001  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221254_C001  CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_C001  CS_OFFL_SIR_GOPN_2_20190401T041449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T041449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_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 b	CS_OFFL_SIR_GOPM_2_20190401T225039_20190401T225951_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20190401T233837_20190401T235143_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_GOPM_2_20190401T231216_20190401T231605_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20190401T025313_20190401T125313_C001  CS_OFFL_SIR_GOPN_2_20190401T072357_20190401T072526_C001  CS_OFFL_SIR_GOPN_2_20190401T072357_20190401T122120_C001  CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001  CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001  CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T1251425_C001  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221425_C001  CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_C001  CS_OFFL_SIR_GOPN_2_20190401T021947_20190401T022254_C001  CS_OFFL_SIR_GOPN_2_20190401T041449_20190401T04530_C001  CS_OFFL_SIR_GOPR_2_20190401T041449_20190401T04530_C001  CS_OFFL_SIR_GOPR_2_20190401T041449_20190401T04530_C001  CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T04104004_20190401T040425_C001  CS_OFFL_SIR_GOPR_2_20190401T070207_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T010227_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T010227_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_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 Ra	CS_OFFL_SIR_GOPM_2_20190401T233202_20190401T233649_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20190401T072357_20190401T072526_C001  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 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 Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has be	CS_OFFL_SIR_GOPM_2_20190401T233837_20190401T235143_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T1221425_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPN_2_20190401T014449_20190401T014530_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190401T0141429_20190401T041431_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043025_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.	CS_OFFL_SIR_GOPN_2_20190401T055136_20190401T055351_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20190401T125520_20190401T125530_C001  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221425_C001  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221425_C001  CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_C001  CS_OFFL_SIR_GOPN_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T0141429_20190401T0141431_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T041425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T045859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T1141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T1141022_20190401T141335_C001  CS_OFFL_SIR_GOPR_2_20190401T1141022_20190401T141335_C001  CS_OFFL_SIR_GOPR_2_20190401T1141022_20190401T141335_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141335_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 Averagi	CS_OFFL_SIR_GOPN_2_20190401T072357_20190401T072526_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221425_C001  CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T222254_C001  CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_C001  CS_OFFL_SIR_GOPN_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T0141429_20190401T0141431_C001  CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T040104_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T1192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T1192353_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T235241_C001  COean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has	CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_C001  CS_OFFL_SIR_GOPN_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014131_C001  CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T1213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T1235143_20190401T213335_C001  CC_CORR_Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averag	CS_OFFL_SIR_GOPN_2_20190401T195520_20190401T195530_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014530_C001  CS_OFFL_SIR_GOPR_2_20190401T041449_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T19353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T235143_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T235143_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T235143_20190401T21335_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T213038_20190401T213355_41_C001  CC_SOFFL_SIR_GOPR_2_20190401T235143_20190401T235241_C001  CC_SO	CS_OFFL_SIR_GOPN_2_20190401T221300_20190401T221425_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T235241_C001  CC=QR_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.	CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T04304_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T233241_C001  CC_COMPRISED Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOPR_2_20190401T014449_20190401T014530_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T193335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CC_COMPRESSIR_GOPR_2_20190401T213038_20190401T213335_C001  CC_COMPRESS	CS_OFFL_SIR_GOPR_2_20190401T041429_20190401T041431_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T070822_20190401T070802_C001  CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T2130190401T213335_C001	CS_OFFL_SIR_GOPR_2_20190401T043004_20190401T043425_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_20190401T141022_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T141349_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T235241_C001  CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T235241_	CS_OFFL_SIR_GOPR_2_20190401T070227_20190401T070802_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001  CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_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.	CS_OFFL_SIR_GOPR_2_20190401T085859_20190401T090057_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20190401T191819_c0190401T192333_c001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001  CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_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_GOPR_2_20190401T141022_20190401T141349_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_201904011213038_201904011213333_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOPR_2_20190401T191819_20190401T192353_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_GOPR_2_20190401T213038_20190401T213335_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_GOPR_2_20190401T235143_20190401T235241_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
CS_OFFL_SIR_GOPM_2_20190401T001505_20190401T001937_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFI SIR GOPM 2 20190401T002021 20190401T003755 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T004050_20190401T004236_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T004723_20190401T004930_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.
CS_OFFL_SIR_GOPM_2_20190401T014530_20190401T020352_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20190401T023000_20190401T023341_C001	Ice Backscatter Averaging Status	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_GOPM_2_20190401T023521_20190401T025100_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_GOPM_2_20190401T025302_20190401T030224_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T032034_20190401T032201_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_GOPM_2_20190401T033012_20190401T034147_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_GOPM_2_20190401T035753_20190401T035909_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20190401T040457_20190401T041242_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T041431_20190401T043003_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_GOPM_2_20190401T050804_20190401T054052_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_GOPM_2_20190401T054317_20190401T054530_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T054542_20190401T055136_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T055356_20190401T061954_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_GOPM_2_20190401T065151_20190401T070227_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_GOPM_2_20190401T070802_20190401T071954_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_GOPM_2_20190401T072527_20190401T072945_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T082535_20190401T084140_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_GOPM_2_20190401T084243_20190401T085859_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_GOPM_2_20190401T090437_20190401T091016_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T091135_20190401T091758_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20190401T094914_20190401T095033_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 GOPM 2 20190401T100354 20190401T103821 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_GOPM_2_20190401T104341_20190401T104852_C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20190401T105037_20190401T111033_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_GOPM_2_20190401T114227_20190401T121607_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_GOPM_2_20190401T123001_20190401T125827_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_GOPM_2_20190401T125851_20190401T130617_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T130832_20190401T131019_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20190401T132441_20190401T133317_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_GOPM_2_20190401T133758_20190401T135543_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_GOPM_2_20190401T135720_20190401T140239_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T140258_20190401T140502_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T141350_20190401T142612_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_GOPM_2_20190401T142819_20190401T144031_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_GOPM_2_20190401T150748_20190401T151719_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_GOPM_2_20190401T151921_20190401T153457_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_GOPM_2_20190401T153645_20190401T154150_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T154941_20190401T155154_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_GOPM_2_20190401T160740_20190401T161211_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_GOPM_2_20190401T161326_20190401T162038_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_GOPM_2_20190401T165716_20190401T171404_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_GOPM_2_20190401T171631_20190401T172106_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T172128_20190401T172258_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T172653_20190401T175224_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20190401T182710_20190401T185339_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_GOPM_2_20190401T185502_20190401T190007_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_GOPM_2_20190401T190002_20190401T190007_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_GOPM_2_20190401T190609_20190401T191819_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_GOPM_2_20190401T192354_20190401T193849_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_GOPM_2_20190401T200454_20190401T203314_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190401T203443_20190401T203920_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_GOPM_2_20190401T204529_20190401T212038_C001	Backscatter Averaging Status	more records.

CS_OFFL_SIR_GOPM_2_20190401T213336_20190401T213529_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_GOPM_2_20190401T220444_20190401T220733_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_GOPM_2_20190401T220933_20190401T221239_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_GOPM_2_20190401T221426_20190401T221946_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190401T222457_20190401T224753_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_GOPM_2_20190401T225039_20190401T225951_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_GOPM_2_20190401T231216_20190401T231605_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_GOPM_2_20190401T233837_20190401T235143_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_GOPN_2_20190401T055136_20190401T055351_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_GOPN_2_20190401T072357_20190401T072526_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190401T121737_20190401T122120_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190401T195520_20190401T195530_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_GOPN_2_20190401T221300_20190401T221425_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190401T221947_20190401T222254_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_GOPR_2_20190401T014449_20190401T014530_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_GOPR_2_20190401T041429_20190401T041431_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_GOPR_2_20190401T043004_20190401T043425_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_GOPR_2_20190401T070227_20190401T070802_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_GOPR_2_20190401T085859_20190401T090057_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_GOPR_2_20190401T141022_20190401T141349_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_GOPR_2_20190401T191819_20190401T192353_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_GOPR_2_20190401T213038_20190401T213335_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_GOPR_2_20190401T235143_20190401T235241_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. GOP 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:

## 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:

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220190331T235920_20190401T004857_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
		The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_220190401T013833_20190401T022811_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_GOP_220190401T022811_20190401T031747_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_GOP_2_20190401T031747_20190401T040724_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T040724_20190401T045700_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_GOP_2_20190401T045700_20190401T054638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T054638_20190401T063614_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_GOP_2_20190401T063614_20190401T072551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T072551_20190401T081528_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T081528_20190401T090505_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T090505_20190401T095441_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_GOP_2_20190401T095441_20190401T104419_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_GOP_2_20190401T104419_20190401T113355_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_GOP_2_20190401T113355_20190401T122332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T122332_20190401T131308_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_GOP_2_20190401T131308_20190401T140246_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_GOP_2_20190401T140246_20190401T145222_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T145222_20190401T154159_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_GOP_2_20190401T154159_20190401T163135_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_GOP_2_20190401T163135_20190401T172113_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_GOP_2_20190401T172113_20190401T181049_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_GOP_2_20190401T181049_20190401T190026_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_GOP_2_20190401T190026_20190401T195003_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_GOP_2_20190401T195003_20190401T203940_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_GOP_2_20190401T203940_20190401T212916_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_GOP_220190401T212916_20190401T221854_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_GOP_220190401T221854_20190401T230830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T230830_20190401T235807_C002	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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220190331T235920_20190401T004857_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_GOP_220190401T004857_20190401T013833_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_GOP_2_20190401T013833_20190401T022811_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_GOP_2_20190401T022811_20190401T031747_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_GOP_220190401T031747_20190401T040724_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_GOP_220190401T040724_20190401T045700_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_GOP_220190401T045700_20190401T054638_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_GOP_220190401T054638_20190401T063614_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_GOP_220190401T063614_20190401T072551_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_GOP_220190401T072551_20190401T081528_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T081528_20190401T090505_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_GOP_2_20190401T090505_20190401T095441_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_GOP_2_20190401T095441_20190401T104419_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_GOP_2_20190401T104419_20190401T113355_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_GOP_2_20190401T113355_20190401T122332_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_GOP_2_20190401T122332_20190401T131308_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_GOP_2_20190401T131308_20190401T140246_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_GOP_2_20190401T140246_20190401T145222_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_GOP_2_20190401T145222_20190401T154159_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_GOP_2_20190401T154159_20190401T163135_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_GOP_2_20190401T163135_20190401T172113_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_GOP_2_20190401T172113_20190401T181049_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_GOP_2_20190401T181049_20190401T190026_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_GOP_2_20190401T190026_20190401T195003_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_GOP_2_20190401T195003_20190401T203940_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_GOP_2_20190401T203940_20190401T212916_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_GOP_2_20190401T212916_20190401T221854_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_GOP_2_20190401T221854_20190401T230830_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_GOP_2_20190401T230830_20190401T235807_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

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

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_GOP_220190331T235920_20190401T004857_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T004857_20190401T013833_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T013833_20190401T022811_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T022811_20190401T031747_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T031747_20190401T040724_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T045700_20190401T054638_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T054638_20190401T063614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T063614_20190401T072551_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T072551_20190401T081528_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T081528_20190401T090505_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T090505_20190401T095441_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T095441_20190401T104419_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T104419_20190401T113355_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T113355_20190401T122332_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T122332_20190401T131308_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T131308_20190401T140246_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T140246_20190401T145222_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T145222_20190401T154159_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T154159_20190401T163135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T163135_20190401T172113_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T172113_20190401T181049_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220190401T181049_20190401T190026_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T190026_20190401T195003_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T195003_20190401T203940_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T203940_20190401T212916_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T212916_20190401T221854_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190401T221854_20190401T230830_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190401T230830_20190401T235807_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.