



### 1. Overview

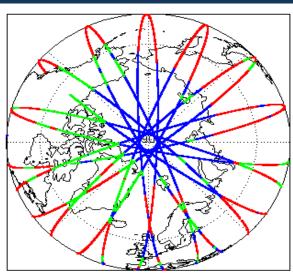
Report Production:	28-Nov-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

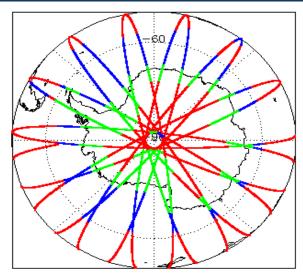
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

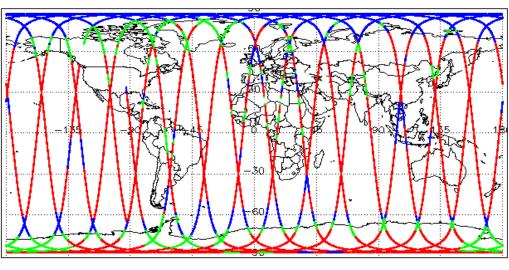
Mission / Instrument News		
23-Nov-2018	None	
04 Nov. 0040	Maria a	

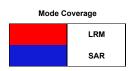
24-Nov-2018 None 25-Nov-2018 Nothing planned

# 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

## 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

### 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20181124T094201_20181124T094809_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors: 2

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20181124T083040_20181124T085844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20181124T174913_20181124T181025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20181124T221637_20181124T221846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T022529_20181124T022959_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T023742_20181124T023818_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T073514_20181124T073857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T095347_20181124T095959_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T105327_20181124T105539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T123246_20181124T123731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T190040_20181124T190114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T190156_20181124T190437_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T204417_20181124T204520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T221912_20181124T222158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181124T222210_20181124T2222420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181124T081147_20181124T081849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181124T102832_20181124T103233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181124T145107_20181124T145527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181124T172447_20181124T172607_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181124T182357_20181124T182740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181124T214047_20181124T214315_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181124T094201_20181124T094809_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

### 5.6 L2 Range Measurement Check

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

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

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

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

Number of products with errors:

76

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181124T001345_20181124T004126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T011325_20181124T013708_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T014023_20181124T014545_C001	Ice Range Averaging Status	records.  The loe Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T014552_20181124T014917_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T015321_20181124T020345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T020923_20181124T022529_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T024631_20181124T030858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T031213_20181124T031621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T032024_20181124T032822_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T033353_20181124T040529_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T044046_20181124T045417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T045957_20181124T050511_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T051209_20181124T053322_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T053607_20181124T054746_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T055658_20181124T060115_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T061612_20181124T062216_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T062403_20181124T063419_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T064133_20181124T064412_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T065131_20181124T072505_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T074008_20181124T081147_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T082124_20181124T082319_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T082526_20181124T082823_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T083040_20181124T085844_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T092022_20181124T093623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T095244_20181124T095347_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T095959_20181124T100238_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T100257_20181124T100724_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T100957_20181124T102409_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T102549_20181124T102831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T111112_20181124T113416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T113748_20181124T114634_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T114946_20181124T121336_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T123946_20181124T131306_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T132004_20181124T132426_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T132911_20181124T135746_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T142115_20181124T143617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T144152_20181124T145107_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T145917_20181124T150505_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T150832_20181124T151250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T151541_20181124T152406_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T154410_20181124T154508_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T155749_20181124T160838_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T160848_20181124T163118_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T163823_20181124T164336_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T165004_20181124T170440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20181124T172051_20181124T172245_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T172304_20181124T172446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T173559_20181124T174627_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T174913_20181124T181025_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T181830_20181124T182240_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T182740_20181124T184651_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T184739_20181124T185205_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T185522_20181124T185955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T185955_20181124T190039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T191445_20181124T191657_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T191701_20181124T193351_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T193354_20181124T194934_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T195156_20181124T195721_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T195741_20181124T200004_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T200826_20181124T202053_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T202144_20181124T203846_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T210022_20181124T211148_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T211352_20181124T212853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T213123_20181124T213618_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T214515_20181124T215739_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T220220_20181124T221513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T225313_20181124T230734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T231536_20181124T231549_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T232300_20181124T234850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181124T212940_20181124T213122_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T030858_20181124T031213_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T105540_20181124T105632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T114832_20181124T114946_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T163118_20181124T163508_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T172245_20181124T172304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T211148_20181124T211351_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

## 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181124T001345_20181124T004126_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T011325_20181124T013708_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T014023_20181124T014545_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T014552_20181124T014917_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T015321_20181124T020345_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T020923_20181124T022529_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T024631_20181124T030858_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T031213_20181124T031621_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T032024_20181124T032822_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T033353_20181124T040529_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T044046_20181124T045417_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T045957_20181124T050511_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

	0)4/11 4	The CIANIL and Command Asserting Obstacle Flores have been and for any
CS_OFFL_SIR_IOPM_2_20181124T051209_20181124T053322_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T053607_20181124T054746_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T055658_20181124T060115_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_O11E_3IK_IOFIN_2_201011241033030_201011241000113_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T061612_20181124T062216_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20181124T062403_20181124T063419_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T064133_20181124T064412_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T065131_20181124T072505_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T074008_20181124T081147_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20181124T082124_20181124T082319_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T082526_20181124T082823_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T083040_20181124T085844_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T092022_20181124T093623_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T095959_20181124T100238_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181124T100257_20181124T100724_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T100957_20181124T102409_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T102549_20181124T102831_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T111112_20181124T113416_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T113748_20181124T114634_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181124T114946_20181124T121336_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T123946_20181124T131306_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T132004_20181124T132426_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T132911_20181124T135746_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T142115_20181124T143617_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20181124T144152_20181124T145107_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T145917_20181124T150505_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T151541_20181124T152406_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFL SIR IOPM 2 20181124T155749 20181124T160838 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T160848_20181124T163118_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T163823_20181124T164336_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181124T165004_20181124T170440_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T172051_20181124T172245_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T172304_20181124T172446_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T173559_20181124T174627_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T174913_20181124T181025_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20181124T181830_20181124T182240_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T182740_20181124T184651_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T184739_20181124T185205_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T185522_20181124T185955_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T185955_20181124T190039_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T191445_20181124T191657_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20181124T191701_20181124T193351_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T193354_20181124T194934_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T195156_20181124T195721_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181124T195741_20181124T200004_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T200826_20181124T202053_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_IOPM_2_20181124T202144_20181124T203846_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T210022_20181124T211148_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T211352_20181124T212853_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T213123_20181124T213618_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20181124T214515 20181124T215739 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20181124T220220_20181124T221513_C001	Backscatter Averaging Status	more records.

CS_OFFL_SIR_IOPM_2_20181124T225313_20181124T230734_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T231050_20181124T231532_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181124T232300_20181124T234850_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181124T212940_20181124T213122_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T030858_20181124T031213_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T105540_20181124T105632_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T114832_20181124T114946_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T163118_20181124T163508_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T172245_20181124T172304_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181124T211148_20181124T211351_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

### 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

### 6. IOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

#### 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: 0

#### 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).

62

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181124T091225_20181124T100204_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181124T000643_20181124T005617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T005617_20181124T014556_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T014556_20181124T023530_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T023530_20181124T032510_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T032510_20181124T041444_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T041444_20181124T050424_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T050424_20181124T055357_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T055357_20181124T064337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T064337_20181124T073311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T073311_20181124T082250_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T082250_20181124T091225_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T091225_20181124T100204_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T100204_20181124T105138_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_2_20181124T114118_20181124T123052_C001  CS_OFFL_SIR_IOP_2_20181124T123052_20181124T132031_C001  CS_OFFL_SIR_IOP_2_20181124T132031_20181124T141005_C001  CS_OFFL_SIR_IOP_2_20181124T141005_20181124T141005_C001  CS_OFFL_SIR_IOP_2_20181124T14005_20181124T145945_C001  CS_OFFL_SIR_IOP_2_20181124T145945_20181124T159491_C001  CS_OFFL_SIR_IOP_2_20181124T15945_20181124T159491_C001  CS_OFFL_SIR_IOP_2_20181124T15945_20181124T159491_C001  CS_OFFL_SIR_IOP_2_20181124T15945_20181124T159491_C001  CS_OFFL_SIR_IOP_2_20181124T15945_20181124T163858_C001  CS_OFFL_SIR_IOP_2_20181124T15945_20181124T172832_C001  CS_OFFL_SIR_IOP_2_20181124T163858_20181124T172832_C001  CS_OFFL_SIR_IOP_2_20181124T163858_20181124T190746_C001  CS_OFFL_SIR_IOP_2_20181124T190746_C001  CS_OFFL_SIR_IOP_2_20181124T190746_C0181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T190746_C0181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204503_C001  CS_OFFL_SIR_IOP_2_20181124T204503_D0181124T204503_C001  CS_OFFL_SIR_			
Range Averaging Status Ice Range Averaging Statu	CS_OFFL_SIR_IOP_2_20181124T105138_20181124T114118_C001		
Range Averaging Status  Ocean Range Averaging Status  Ocean Range Averaging Status  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean and loe Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging Status Flag have been set for one or more records.  The Ocean Range Averaging	CS_OFFL_SIR_IOP_220181124T114118_20181124T123052_C001		
Range Averaging Status  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range 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_IOP_220181124T123052_20181124T132031_C001		
CS_OFFL_SIR_IOP_2_20181124T145945_20181124T154919_C001  CS_OFFL_SIR_IOP_2_20181124T154919_20181124T163858_C001  CS_OFFL_SIR_IOP_2_20181124T163858_20181124T163858_C001  CS_OFFL_SIR_IOP_2_20181124T163858_20181124T172832_C001  CS_OFFL_SIR_IOP_2_20181124T163858_20181124T172832_C001  CS_OFFL_SIR_IOP_2_20181124T172832_20181124T181812_C001  CS_OFFL_SIR_IOP_2_20181124T181812_20181124T19786_C001  CS_OFFL_SIR_IOP_2_20181124T181812_20181124T197746_C001  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T195725_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T2315	CS_OFFL_SIR_IOP_220181124T132031_20181124T141005_C001		
Range Averaging Status  Ocean Range Averaging Status  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  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.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averag	CS_OFFL_SIR_IOP_220181124T141005_20181124T145945_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOP_2_20181124T163858_20181124T172832_C001  CS_OFFL_SIR_IOP_2_20181124T172832_20181124T181812_C001  CS_OFFL_SIR_IOP_2_20181124T172832_20181124T181812_C001  CS_OFFL_SIR_IOP_2_20181124T181812_20181124T190746_C001  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T195725_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T20613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T20613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T20613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T20613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T20613_C001  CS_OFFL_SIR_IOP_2_20181124T204700_C00527_C002  CS_OFFL_SIR_IOP_2_20181124T204700_C00527_C00	CS_OFFL_SIR_IOP_220181124T145945_20181124T154919_C001		
Range Averaging Status  Or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flags have been set for one or more records.  The Ocean and Ice Range Averaging Status Flag	CS_OFFL_SIR_IOP_220181124T154919_20181124T163858_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOP_2_20181124T181812_20181124T190746_C001  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T195725_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T195725_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T23639_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T23639_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T223613_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T23639_20181124T2231553_C001  CS_OFFL_SIR_IOP_2_20181124T23639_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T23639_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T23639_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T23639_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T23639_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_C001  CS_OFFL_SIR_I	CS_OFFL_SIR_IOP_220181124T163858_20181124T172832_C001		
Range Averaging Status or more records.  CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001  CS_OFFL_SIR_IOP_2_20181124T195725_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T213639_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T213639_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T223613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181125T000527_C002  CS_OFFL_SIR_IOP_2_20181124T231553_20181125T00	CS_OFFL_SIR_IOP_220181124T172832_20181124T181812_C001	Ocean Range Averaging Status	
Range Averaging Status  Or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOP_2_20181124T295725_20181124T204700_C001  CS_OFFL_SIR_IOP_2_20181124T204700_20181124T213639_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T2231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_C001  CS_OFFL_SIR_IOP_3_20181124T231553_C001  CS_OFF	CS_OFFL_SIR_IOP_220181124T181812_20181124T190746_C001		
CS_OFFL_SIR_IOP_2_20181124T204700_20181124T213639_C001  CS_OFFL_SIR_IOP_2_20181124T213639_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181124T231553_C002  CS_OFFL_SIR_IOP_2_20181124T231553_20181125T000527_C002	CS_OFFL_SIR_IOP_220181124T190746_20181124T195725_C001		
Range Averaging Status or more records.  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T213639_20181124T222613_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181125T000527_C002	CS_OFFL_SIR_IOP_220181124T195725_20181124T204700_C001	Ocean Range Averaging Status	
Range Averaging Status or more records.  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status  CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001  CS_OFFL_SIR_IOP_2_20181124T231553_20181125T000527_C002	CS_OFFL_SIR_IOP_220181124T204700_20181124T213639_C001		
CS_OFFL_SIR_IOP_2_201811241222613_201811241231553_C001  Range Averaging Status or more records.  The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOP_220181124T213639_20181124T222613_C001		
US OFFI SIR IOP / 201811241231553 201811251000527 CDO/ IOCEAN RANGE AVERAGING STATUS	CS_OFFL_SIR_IOP_220181124T222613_20181124T231553_C001		
	CS_OFFL_SIR_IOP_220181124T231553_20181125T000527_C002	Ocean Range Averaging Status	

#### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181124T000643_20181124T005617_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T005617_20181124T014556_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T014556_20181124T023530_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T023530_20181124T032510_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T032510_20181124T041444_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T041444_20181124T050424_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T050424_20181124T055357_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T055357_20181124T064337_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T064337_20181124T073311_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T073311_20181124T082250_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T082250_20181124T091225_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T091225_20181124T100204_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T100204_20181124T105138_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T105138_20181124T114118_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T114118_20181124T123052_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T123052_20181124T132031_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T132031_20181124T141005_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T141005_20181124T145945_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T145945_20181124T154919_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T154919_20181124T163858_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_220181124T163858_20181124T172832_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T172832_20181124T181812_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T181812_20181124T190746_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T190746_20181124T195725_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T195725_20181124T204700_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T204700_20181124T213639_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T213639_20181124T222613_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181124T222613_20181124T231553_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220181124T231553_20181125T000527_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181124T000643_20181124T005617_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T005617_20181124T014556_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T014556_20181124T023530_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T023530_20181124T032510_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T032510_20181124T041444_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T041444_20181124T050424_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T050424_20181124T055357_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T064337_20181124T073311_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T073311_20181124T082250_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T082250_20181124T091225_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T091225_20181124T100204_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T100204_20181124T105138_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T105138_20181124T114118_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T114118_20181124T123052_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T123052_20181124T132031_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T132031_20181124T141005_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T141005_20181124T145945_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T145945_20181124T154919_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T154919_20181124T163858_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T163858_20181124T172832_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T172832_20181124T181812_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T181812_20181124T190746_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T190746_20181124T195725_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T195725_20181124T204700_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T204700_20181124T213639_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T213639_20181124T222613_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181124T231553_20181125T000527_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.