



## 1. Overview

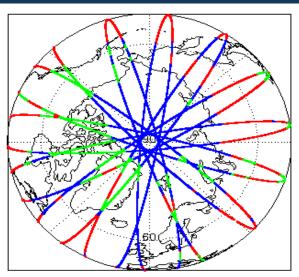
Report Production:	11-Feb-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

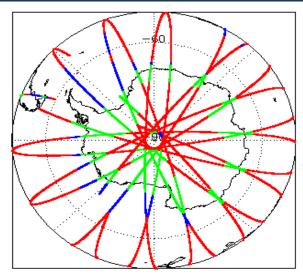
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

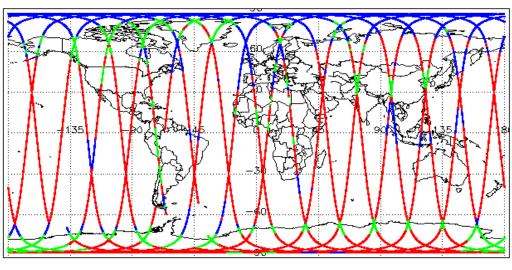
Mission / Instrument News		
07-Feb-2019	None	
07-Feb-2019 08-Feb-2019	None	

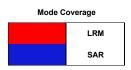
09-Feb-2019 Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

### 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Λ

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

17

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190208T051755_20190208T053335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190208T061024_20190208T061058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190208T142448_20190208T145846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190208T175022_20190208T175953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T010551_20190208T010616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T060158_20190208T060308_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T060422_20190208T060606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T074116_20190208T074705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T122155_20190208T122347_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T190734_20190208T191202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190208T214624_20190208T214742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190208T050108_20190208T050637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190208T055522_20190208T055755_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190208T071241_20190208T072056_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190208T122120_20190208T122155_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190208T140123_20190208T140156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190208T140336_20190208T140642_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

ducts with errors.

### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190208T001939_20190208T005323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

00.055		The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T012636_20190208T014613_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T014751_20190208T015301_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190208T015817_20190208T023310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T025737_20190208T030158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T030253_20190208T032030_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T032330_20190208T032435_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T033002_20190208T033204_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T033851_20190208T035812_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T040106_20190208T040815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T042806_20190208T044603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T044719_20190208T050108_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T051224_20190208T051615_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T051755_20190208T053335_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T053536_20190208T054459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T061251_20190208T062419_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T064008_20190208T064401_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T064721_20190208T065517_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T065705_20190208T071241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOPM 2 20190208T074938 20190208T075912 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T075915_20190208T082324_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T082551_20190208T082801_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T082824_20190208T083405_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190208T083628 20190208T090202 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20190208T093330 20190208T094459 C001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T095035_20190208T100202_C001	Ocean Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T100513_20190208T100623_C001	Ice Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T100800_20190208T101233_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T101517_20190208T104324_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T105307_20190208T105330_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T110748_20190208T114107_C001	Ocean Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T114710_20190208T115245_C001	Ice Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T115410_20190208T120031_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T123142_20190208T123321_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190208T124642_20190208T132058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T132613_20190208T133126_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T133306_20190208T135311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T142448_20190208T145846_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T150629_20190208T151029_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T151224_20190208T154133_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T154148_20190208T154852_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T155029_20190208T155256_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T160753_20190208T161549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T162030_20190208T162222_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T162225_20190208T163811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T163952_20190208T164511_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T164530_20190208T164731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T165603_20190208T170850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T171103_20190208T172250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T172547_20190208T172702_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T175022_20190208T175953_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T180228_20190208T181731_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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CS_OFFL_SIR_IOPM_2_20190208T181917_20190208T182422_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T182446_20190208T182601_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T183254_20190208T183351_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T184244_20190208T184437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T185604_20190208T190309_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T193514_20190208T193701_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T193908_20190208T195632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T195920_20190208T200338_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T200940_20190208T203327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T211018_20190208T213614_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T213729_20190208T214252_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T214847_20190208T220054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T220630_20190208T222149_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T224714_20190208T230856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T230910_20190208T231547_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T231721_20190208T232530_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190208T114335_20190208T114710_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190208T200338_20190208T200344_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190208T033733_20190208T033851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190208T150626_20190208T150629_C001	Ice Range Averaging Status	The Ice 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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR IOPM 2 20190208T001939 20190208T005323 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
00_011 E_011(_101 111_2_201302001001333_201302001003325_0001	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T012636 20190208T014613 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
00_011 E_011(_101 141_2_201302001012030_201302001014013_0001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190208T014751_20190208T015301_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
00_011 E_011(_101 111_2_201302001014731_201302001013301_0001	lee backscatter Averaging status	records.
CS OFFL SIR IOPM 2 20190208T015817 20190208T023310 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_OFFE_SIIN_IOFM_2_201902001013017_201902001023310_C001	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T025737 20190208T030158 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
00_011 E_011(_101 141_2_201302001023737_201302001030130_0001	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T030253 20190208T032030 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
00_011E_011C_1011M_E_201002001000200_201002001002000_0001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190208T033851_20190208T035812_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
05_0112_011(_101111_2_201002001000001_201002001000012_0001	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T040106 20190208T040815 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
00_011E_011C_1011M_E_201002001040100_201002001040010_0001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190208T042806_20190208T044603_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
00_0112_011(_101111_2_201002001012000_2010010010000_0001	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T044719 20190208T050108 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
05_0112_0112_0111_01111_0_0010111110_00100010	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190208T051224_20190208T051615_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
		records.
CS_OFFL_SIR_IOPM_2_20190208T051755_20190208T053335_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T053536 20190208T054459 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190208T061251_20190208T062419_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20190208T064008_20190208T064401_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T064721 20190208T065517 C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
		records.
CS OFFL SIR IOPM 2 20190208T065705 20190208T071241 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T074938 20190208T075912 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR IOPM 2 20190208T075915 20190208T082324 C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	Backscaller Averaging Status	
CS_OFFL_SIR_IOPM_2_20190208T082551_20190208T082801_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	CIAUL Access sizes Obstace Occasion	
CS_OFFL_SIR_IOPM_2_20190208T083628_20190208T090202_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status  SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190208T095035_20190208T100202_C001	Backscatter Averaging Status	more records.
	Dackscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_20190208T100513_20190208T100623_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
		rocords.

CS_OFFL_SIR_IOPM_2_20190208T100800_20190208T101233_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T101517_20190208T104324_C001	SWH Averaging Status, Ocean	records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20190208T105307 20190208T105330 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 20190208T110748 20190208T114107 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 20190208T114710 20190208T115245 C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190208T115410_20190208T120031_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_20190208T123142_20190208T123321_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_20190208T124642_20190208T132058_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T132613_20190208T133126_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190208T133306_20190208T135311_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_20190208T142448_20190208T145846_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T150310_20190208T150613_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20190208T150629_20190208T151029_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T151224_20190208T154133_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_20190208T154148_20190208T154852_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_20190208T155029_20190208T155256_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T160753_20190208T161549_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_20190208T162225_20190208T163811_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_20190208T163952_20190208T164511_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T164530_20190208T164731_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T165603_20190208T170850_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_20190208T171103_20190208T172250_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_20190208T172547_20190208T172702_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_20190208T175022_20190208T175953_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_20190208T180228_20190208T181731_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_20190208T181917_20190208T182422_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T182446_20190208T182601_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T183254_20190208T183351_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_20190208T184244_20190208T184437_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_20190208T185017_20190208T185441_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_20190208T185604_20190208T190309_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_20190208T193514_20190208T193701_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_20190208T193908_20190208T195632_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_20190208T195920_20190208T200338_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190208T200940_20190208T203327_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190208T211018_20190208T213614_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_20190208T213729_20190208T214252_C001	Backscatter Averaging Status  Ice Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20190208T214847_20190208T220054_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20190208T220630_20190208T222149_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_20190208T224714_20190208T230856_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_IOFM_2_201902001224714_201902001230630_C001  CS_OFFL_SIR_IOFM_2_20190208T230910_20190208T231547_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_20190208T231721_20190208T232530_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20190208T114335_20190208T114710_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20190208T200338_20190208T200344_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_IOPR_2_20190208T033733_20190208T033851_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPR_2_20190208T150626_20190208T150629_C001	Ice Backscatter Averaging Status	records.

# 5.8 L2 Ocean Retracking Quality Check

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

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

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

0

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

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).

Number of products with errors:

0

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Λ

#### 6.6 P2P Range Measurement Check

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190208T001305_20190208T010242_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190208T010242_20190208T015219_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_220190208T015219_20190208T024156_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_220190208T024156_20190208T033132_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190208T033132_20190208T042109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190208T042109_20190208T051046_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_220190208T051046_20190208T060023_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_220190208T060023_20190208T064959_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_220190208T064959_20190208T073936_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_220190208T073936_20190208T082913_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190208T082913_20190208T091850_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_220190208T091850_20190208T100827_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_220190208T100827_20190208T105804_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_220190208T105804_20190208T114740_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190208T114740_20190208T123717_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_220190208T123717_20190208T132654_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190208T132654_20190208T141631_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_220190208T141631_20190208T150607_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_220190208T150607_20190208T155544_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_220190208T155544_20190208T164521_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_220190208T164521_20190208T173458_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_220190208T173458_20190208T182434_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_220190208T182434_20190208T191411_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_220190208T191411_20190208T200348_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_220190208T200348_20190208T205325_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_220190208T205325_20190208T214301_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_220190208T214301_20190208T223238_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_220190208T223238_20190208T232215_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

#### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

Number of products with errors: 28		
Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190208T001305_20190208T010242_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_220190208T010242_20190208T015219_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_220190208T015219_20190208T024156_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_220190208T024156_20190208T033132_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_220190208T033132_20190208T042109_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_220190208T042109_20190208T051046_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_220190208T051046_20190208T060023_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_220190208T060023_20190208T064959_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_220190208T064959_20190208T073936_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_220190208T073936_20190208T082913_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_220190208T082913_20190208T091850_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_220190208T091850_20190208T100827_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_220190208T100827_20190208T105804_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_220190208T105804_20190208T114740_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_220190208T114740_20190208T123717_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_220190208T123717_20190208T132654_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_220190208T132654_20190208T141631_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_220190208T141631_20190208T150607_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_220190208T150607_20190208T155544_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_220190208T155544_20190208T164521_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_220190208T164521_20190208T173458_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_220190208T173458_20190208T182434_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_220190208T182434_20190208T191411_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_220190208T191411_20190208T200348_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_220190208T200348_20190208T205325_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_220190208T205325_20190208T214301_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_220190208T214301_20190208T223238_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_220190208T223238_20190208T232215_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.

## 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:

CS_OFFL_SIR_IOP_2_20190208T010242_20190208T015219_C001  CS_OFFL_SIR_IOP_2_20190208T015219_20190208T024156_C001  CS_OFFL_SIR_IOP_2_20190208T024156_20190208T034132_C001  CS_OFFL_SIR_IOP_2_20190208T024156_20190208T034132_C001  CS_OFFL_SIR_IOP_2_20190208T034132_20190208T034132_C001  CS_OFFL_SIR_IOP_2_20190208T034132_20190208T046_C001  CS_OFFL_SIR_IOP_2_20190208T042109_20190208T06406_C001  CS_OFFL_SIR_IOP_2_20190208T064209_20190208T06406_C001  CS_OFFL_SIR_IOP_2_20190208T06406_20190208T064099_C001  CS_OFFL_SIR_IOP_2_20190208T06406_20190208T064999_C001  CS_OFFL_SIR_IOP_2_20190208T06406_20190208T064999_C001  CS_OFFL_SIR_IOP_2_20190208T06406_20190208T064999_C001  CS_OFFL_SIR_IOP_2_20190208T06406_20190208T064999_C001  CS_OFFL_SIR_IOP_2_20190208T082913_20190208T082913_C001  CS_OFFL_SIR_IOP_2_20190208T082913_20190208T091850_C001  CS_OFFL_SIR_IOP_2_20190208T082913_20190208T091850_C001  CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  CS_OFFL_SIR_IOP_2_20190208T10827_20190208T108287_C001  CS_OFFL_SIR_IOP_2_20190208T10827_20190208T108287_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T114740_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T114740_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T114740_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T114740_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T114740_C001  CCEAR Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_C001  CCEAR Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_C001  CCEAR Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_C001  CCEAR Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T14631_20190208T1165607_C001  CCEAR Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T146512	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20190208T015219_20190208T024156_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T033132_20190208T042109_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T042109_20190208T042109_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T051046_20190208T064023_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T060023_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T060023_20190208T064959_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T082913_20190208T082913_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T082913_20190208T091850_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T091850_20190208T10827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T132654_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155644_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more recor	CS_OFFL_SIR_IOP_220190208T001305_20190208T010242_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T033132_20190208T042109_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T042109_20190208T042109_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T051046_20190208T060023_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T060023_20190208T064595_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T060023_20190208T064595_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T082913_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T082913_20190208T00827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T10827_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T14740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T14631_20190208T14631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T14631_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T	CS_OFFL_SIR_IOP_220190208T010242_20190208T015219_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T033132_20190208T042109_C001  CS_OFFL_SIR_IOP_2_20190208T042109_20190208T051046_C001  CS_OFFL_SIR_IOP_2_20190208T051046_20190208T060023_C001  CS_OFFL_SIR_IOP_2_20190208T051046_20190208T060023_C001  CS_OFFL_SIR_IOP_2_20190208T060023_20190208T0604959_C001  CS_OFFL_SIR_IOP_2_20190208T073936_20190208T064959_C001  CS_OFFL_SIR_IOP_2_20190208T073936_20190208T068959_C001  CS_OFFL_SIR_IOP_2_20190208T073936_20190208T082913_C001  CS_OFFL_SIR_IOP_2_20190208T09293_20190208T091850_C001  CS_OFFL_SIR_IOP_2_20190208T09293_20190208T091850_C001  CS_OFFL_SIR_IOP_2_20190208T09293_20190208T100827_C001  CS_OFFL_SIR_IOP_2_20190208T09208T09208T100827_C001  CS_OFFL_SIR_IOP_2_20190208T09208T09208T100827_C001  CS_OFFL_SIR_IOP_2_20190208T105804_20190208T105804_C001  CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T132654_C001  CS_OFFL_SIR_IOP_2_20190208T132654_20190208T132654_C001  CS_OFFL_SIR_IOP_2_20190208T132654_20190208T132654_C001  CS_OFFL_SIR_IOP_2_20190208T132654_20190208T155544_C001  CS_OFFL_SIR_IOP_2_20190208T14651_20190208T155544_C001  CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  CS_OFFL_SIR_IOP_2_20190208T165544_20190208T165521_C001  CS_OFFL_SIR_IOP_2_20190208T155544_20190208T165521_C001  CS_OFFL_SIR_IOP_2_20190208T155544_20190208T165521_C001  CCean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T165521_C001  CCEAN RETracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T165544_C001  CCEAN RETRACKING Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T165544_C001  CCEAN RETRACKING Quality Flag  The Ocean Retrackin	CS_OFFL_SIR_IOP_220190208T015219_20190208T024156_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T042109_20190208T051046_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T051046_20190208T060023_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T060023_20190208T064959_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T073936_20190208T082913_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T09208T09208T091850_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T09208T10827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T10827_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_C010  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T144631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155644_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_201	CS_OFFL_SIR_IOP_220190208T024156_20190208T033132_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T051046_20190208T060023_C001  CS_OFFL_SIR_IOP_2_20190208T060023_20190208T064959_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T073936_20190208T082913_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T082913_20190208T091850_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T105804_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T1377_20190208T1377_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T132654_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T155544_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T165544_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T165544_20190208T165544_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T165544_20190208T165544_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has b	CS_OFFL_SIR_IOP_220190208T033132_20190208T042109_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T060023_20190208T064959_C001  CS_OFFL_SIR_IOP_2_20190208T073936_20190208T082913_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T082913_20190208T091850_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T100827_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T123717_20190208T123717_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  Ocean Retracking Quality Flag  The	CS_OFFL_SIR_IOP_220190208T042109_20190208T051046_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T073936_20190208T082913_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T100827_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T123717_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T14631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T165544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T165544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFF	CS_OFFL_SIR_IOP_220190208T051046_20190208T060023_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T082913_20190208T091850_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T100827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T123717_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_201	CS_OFFL_SIR_IOP_220190208T060023_20190208T064959_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T091850_20190208T100827_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T123717_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_201	CS_OFFL_SIR_IOP_220190208T073936_20190208T082913_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T100827_20190208T105804_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T164521_C00	CS_OFFL_SIR_IOP_220190208T082913_20190208T091850_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T105804_20190208T114740_C001  CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  CS_OFFL_SIR_IOP_2_20190208T1123717_20190208T132654_C001  CS_OFFL_SIR_IOP_2_20190208T132654_20190208T132654_C001  CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  CS_OFFL_SIR_IOP_2_20190208T155544_C001  CS_OFFL_SIR_IOP_2_20190208T164521_C001  CS_OFFL_SIR_I	CS_OFFL_SIR_IOP_220190208T091850_20190208T100827_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T114740_20190208T123717_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001	CS_OFFL_SIR_IOP_220190208T100827_20190208T105804_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T132654_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001	CS_OFFL_SIR_IOP_220190208T105804_20190208T114740_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T132654_20190208T141631_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001	CS_OFFL_SIR_IOP_220190208T114740_20190208T123717_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T141631_20190208T150607_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  The Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001	CS_OFFL_SIR_IOP_220190208T123717_20190208T132654_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T150607_20190208T155544_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record  CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record  CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T132654_20190208T141631_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T155544_20190208T164521_C001  CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record.  The Ocean Retracking Quality Flag has been set for one or more record.	CS_OFFL_SIR_IOP_220190208T141631_20190208T150607_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T164521_20190208T173458_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T150607_20190208T155544_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220190208T155544_20190208T164521_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T173458_20190208T182434_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T164521_20190208T173458_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220190208T173458_20190208T182434_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T182434_20190208T191411_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T182434_20190208T191411_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T191411_20190208T200348_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T191411_20190208T200348_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T200348_20190208T205325_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T200348_20190208T205325_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T205325_20190208T214301_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T205325_20190208T214301_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T214301_20190208T223238_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T214301_20190208T223238_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20190208T223238_20190208T232215_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_IOP_220190208T223238_20190208T232215_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.