



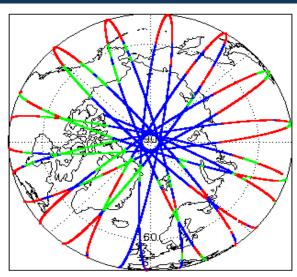
## 1. Overview

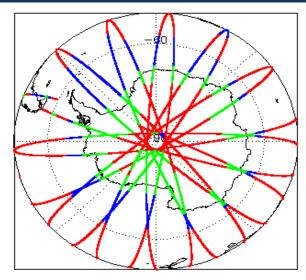
Report Production:	15-Jan-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B. L2 & P2P Science Data	

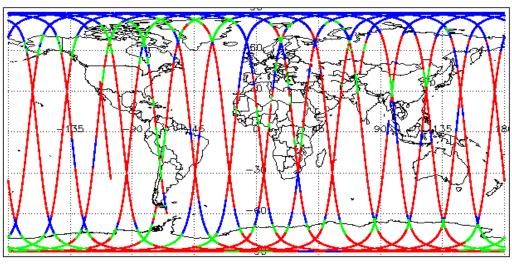
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	See Section 5.2	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
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		
11-Dec-2018	None	
12-Dec-2018	None	
13-Dec-2018	SIRAL unavailability on 13-Dec-2018 from 08:33:44 to 10:19:43 due to a planned orbit manoeuvre and from 13:54:52 to 14:14:48 due to planned on-board maintanance.	

# 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

## 4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

### 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

## 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

18

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20181212T080817_20181212T082336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181212T214159_20181212T214441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T085201_20181212T085311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T103119_20181212T103616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T120608_20181212T120642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T151154_20181212T151349_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T183930_20181212T184042_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T202045_20181212T202323_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T212953_20181212T213352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181212T215742_20181212T220205_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T003041_20181212T004039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T075109_20181212T075643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T125058_20181212T125338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T143008_20181212T143339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T151119_20181212T151153_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T193926_20181212T194611_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T202324_20181212T203025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181212T215718_20181212T215741_C001	Loss of Echo	The tracking echo is missing for one or more records

#### 5. GOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

2

Product	Test Failed
CS_OFFL_SIR_GOPR_2_20181212T205023_20181212T205030_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_GOPN_2_20181212T070637_20181212T070641_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

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:

77

Number of products with errors: 77		
Product	Test Failed	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181211T235110_20181212T001946_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T005104_20181212T011603_C001	Ocean Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T011836_20181212T012339_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20181212T013140_20181212T014145_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T014722_20181212T020448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T021829_20181212T021928_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T022712_20181212T023523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T025025_20181212T025425_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T025835_20181212T030411_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T031054_20181212T034344_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T035709_20181212T035811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T041642_20181212T043308_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T043757_20181212T044306_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T044926_20181212T052323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T054742_20181212T055203_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T055259_20181212T061036_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T062005_20181212T062209_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T062920_20181212T064458_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T064501_20181212T064939_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20181212T065106 20181212T065935 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T071807_20181212T073614_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T073725_20181212T075108_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T080817_20181212T082336_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T082538_20181212T083501_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T085331_20181212T085428_C001	Ice Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 201812121085732 201812121085930 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_GOPM_2_20181212T090051_20181212T091424_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T093019_20181212T093146_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T093211_20181212T093334_C001	Ocean Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T093729_20181212T094521_C001	Ice Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T094801_20181212T100242_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T104035_20181212T105438_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181212T105441_20181212T111251_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20181212T111556_20181212T111807_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T111827_20181212T112410_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T112741_20181212T115211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T122338_20181212T123505_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T124041_20181212T125057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T125805_20181212T130234_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T130621_20181212T133439_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T134204_20181212T134400_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T135757_20181212T143008_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T143715_20181212T144250_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T144557_20181212T145034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T152146_20181212T152352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20181212T153640_20181212T160955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T161619_20181212T162130_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T162608_20181212T164313_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T171448_20181212T174834_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T180517_20181212T183128_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T183144_20181212T183855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T184042_20181212T184257_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T185440_20181212T190554_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T191036_20181212T192757_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T192958_20181212T193516_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T193535_20181212T193736_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T194611_20181212T195851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T200104_20181212T201811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T204027_20181212T204959_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T205234_20181212T210645_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T210923_20181212T211427_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T211451_20181212T211606_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T214604_20181212T215231_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T222924_20181212T224548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T224921_20181212T225343_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T225405_20181212T225545_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T230017_20181212T232509_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T011704_20181212T011836_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T012340_20181212T012346_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T034539_20181212T034607_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T070637_20181212T070641_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T112411_20181212T112632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T161300_20181212T161618_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T202045_20181212T202323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181212T052611_20181212T053256_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181212T165337_20181212T165638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181212T224548_20181212T224611_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.

Number of products with errors: 76

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181211T235110_20181212T001946_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T005104_20181212T011603_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T011836_20181212T012339_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T013140_20181212T014145_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T014722_20181212T020448_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T021829_20181212T021928_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T022712_20181212T023523_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T025025_20181212T025425_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T025835_20181212T030411_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T031054_20181212T034344_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T035709_20181212T035811_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, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T041642\_20181212T043308\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T044926 20181212T052323 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T054742\_20181212T055203\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T055259\_20181212T061036\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20181212T062005 20181212T062209 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T062920\_20181212T064458\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T064501 20181212T064939 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T065106 20181212T065935 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T071807\_20181212T073614\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T073725\_20181212T075108\_C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T080817\_20181212T082336\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T082538\_20181212T083501\_C001 **Backscatter Averaging Status** more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20181212T085311 20181212T085428 C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS\_OFFL\_SIR\_GOPM\_2\_20181212T085732\_20181212T085930\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T090051\_20181212T091424\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T093019 20181212T093146 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T093211\_20181212T093334\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T093729\_20181212T094521\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T094801 20181212T100242 C001 more records Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T104035\_20181212T105438\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T105441\_20181212T111251\_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20181212T111556 20181212T111807 C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T111827\_20181212T112410\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T112741 20181212T115211 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T122338 20181212T123505 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T124041 20181212T125057 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T125805\_20181212T130234\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T130621\_20181212T133439\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T135757\_20181212T143008\_C001 more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20181212T143715 20181212T144250 C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T144557\_20181212T145034\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T152146\_20181212T152352\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T153640 20181212T160955 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T161619\_20181212T162130\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T162608 20181212T164313 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T171448 20181212T174834 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20181212T175634 20181212T180033 C001 Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T180517 20181212T183128 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T183144 20181212T183855 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T184042\_20181212T184257\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T185440\_20181212T190554\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T191036 20181212T192757 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T192958\_20181212T193516\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T193535\_20181212T193736\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T194611\_20181212T195851\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T200104\_20181212T201811\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20181212T204027 20181212T204959 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T205234\_20181212T210645\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOPM\_2\_20181212T210923\_20181212T211427\_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20181212T211451 20181212T211606 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_GOPM\_2\_20181212T214604\_20181212T215231\_C001 Backscatter Averaging Status more records.

CS_OFFL_SIR_GOPM_2_20181212T222924_20181212T224548_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T224921_20181212T225343_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T225405_20181212T225545_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181212T230017_20181212T232509_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T011704_20181212T011836_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T012340_20181212T012346_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T034539_20181212T034607_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T070637_20181212T070641_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T112411_20181212T112632_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T161300_20181212T161618_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181212T202045_20181212T202323_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181212T052611_20181212T053256_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181212T165337_20181212T165638_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181212T224548_20181212T224611_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

#### 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

60

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

## 6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181211T234441_20181212T003417_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T003417_20181212T012355_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T012355_20181212T021331_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T021331_20181212T030309_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T030309_20181212T035244_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T035244_20181212T044222_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T044222_20181212T053158_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T053158_20181212T062136_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181212T062136_20181212T071111_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T071111_20181212T080049_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T080049_20181212T085025_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_220181212T085025_20181212T094003_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T094003_20181212T102938_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T102938_20181212T111916_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T111916_20181212T120852_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T120852_20181212T125830_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T125830_20181212T134806_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181212T143743_20181212T152719_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T152719_20181212T161657_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T161657_20181212T170633_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T170633_20181212T175610_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T184546_20181212T193524_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T193524_20181212T202500_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T220413_20181212T225351_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T225351_20181212T234327_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181211T234441_20181212T003417_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T003417_20181212T012355_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T012355_20181212T021331_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T021331_20181212T030309_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T030309_20181212T035244_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T035244_20181212T044222_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T044222_20181212T053158_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T053158_20181212T062136_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T062136_20181212T071111_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T071111_20181212T080049_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T080049_20181212T085025_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T085025_20181212T094003_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T094003_20181212T102938_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T102938_20181212T111916_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T111916_20181212T120852_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T120852_20181212T125830_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T125830_20181212T134806_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_220181212T134806_20181212T143743_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T143743_20181212T152719_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T152719_20181212T161657_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T161657_20181212T170633_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T170633_20181212T175610_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T175610_20181212T184546_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T184546_20181212T193524_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T220413_20181212T225351_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220181212T225351_20181212T234327_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_GOP_2_2018121703441_2018121703362_0011 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217003417_2018121703362_0011 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217003309_20181217033244_C001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217003344_20181217044222_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217004222_20181217034196_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217003182_20181217003196_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217003182_20181217003196_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201812170031217003196_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_2018121700398_2018121700398_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217009092_2018121709398_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217009092_2018121710938_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_2018121710938_20181217110938_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181217110938_20181217110930_001 Cean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_2018121710932_2018121710932_001 Cean Retracking Qual	Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181217103324 20181217103326 C001  CS_OFFL_SIR_GOP_2_20181217103224 2018121710324 C001  CS_OFFL_SIR_GOP_2_2018121710324 20181217103218 C001  CS_OFFL_SIR_GOP_2_2018121710324 20181217103218 C001  CS_OFFL_SIR_GOP_2_20181217103218 201812170518 C001  CS_OFFL_SIR_GOP_2_20181217103218 2018121710518 C001  CS_OFFL_SIR_GOP_2_20181217103218 2018121710518 C001  CS_OFFL_SIR_GOP_2_20181217103218 2018121710518 C001  CS_OFFL_SIR_GOP_2_2018121710318 2018121710518 C001  CS_OFFL_SIR_GOP_2_2018121710318 2018121710511 C001  CS_OFFL_SIR_GOP_2_2018121710318 2018121710318 C001  CS_OFFL_SIR_GOP_2_2018121710318 2018121710318 C001  CS_OFFL_SIR_GOP_2_20181217103032 2018121710318 C001  CS_OFFL_SIR_GOP_2_20181217103032 20181217103218 C001  CS_OFFL_SIR_GOP_2_20181217103032 20181217103218 C001  CS_OFFL_SIR_GOP_2_20181217103032 2018121710333 C001  CS_OFFL_SIR_GOP_2_20181217103032 2018121710333 C001  CS_OFFL_SIR_GOP_2_20181217103032 20181217111916 C001  CS_OFFL_SIR_GOP_2_2018121711918 2018121710338 C001  CS_OFFL_SIR_GOP_2_20181217111918 2018121710338 C001  CS_OFFL_SIR_GOP_2_20181217111918 20181217110383 C001  CS_OFFL_SIR_GOP_2_2018121711918 20181217110383 C001  CS_OFFL_SIR_GOP_2_20181217111918 2018121711033 C001  CS_OFFL_SIR_GOP_2_201812171171033 2018121711033 C001  CS_OFFL_SIR_GOP_2_201812171171033 2018121711033 C001  CS_OFFL_SIR_GOP_2_20181217111033 20181217111033 C001  CS_OFFL_SIR_GOP_2_2018121711033 2018121711103 C001  CS_OFFL_SIR_GOP_2_2018121711033 2018121711103 C001  CS_OFFL_SIR_GOP_2_2018121711033 201812171103 C001  CS_OFFL_SIR_GOP_2_2018121711033 2018121711103 C001  CS_OFFL_SIR_GOP_2_2018121711033 201812171103 C001  CS_OFFL_SIR_GOP_2_2018121711033 201812171103 C001  CS_OFFL_SIR_GOP_2_2018121711033 201812171103 C001  CS_OFFL_SIR_GOP_2_2018121711035 2018121711033 C001  CS_OFFL_SIR_GOP_2_2018121711033 2018121711	CS_OFFL_SIR_GOP_220181211T234441_20181212T003417_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T030309_20181212T0303244_C0011  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T0303244_20181212T063158_C0011  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T062136_20181212T062136_C0011  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T062136_20181212T080049_C0011  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T080049_C0011  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T080032_20181212T080030_C0011  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more rec	CS_OFFL_SIR_GOP_220181212T003417_20181212T012355_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T035244_20181212T053158_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T053158_20181212T053158_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T062138_20181212T060110  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T080049_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T080040_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality	CS_OFFL_SIR_GOP_220181212T021331_20181212T030309_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T04222_20181212T053158_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T071111_20181212T06049_C001  Coean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T071111_20181212T060049_C001  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T080049_C001  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T080049_C001  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T0800400_C001  CS_OFFL_SIR_GOP_2_20181212T094003_20181212T109308_C001  CS_OFFL_SIR_GOP_2_20181212T094003_20181212T110938_C001  CS_OFFL_SIR_GOP_2_20181212T111916_20181212T10938_C001  CS_OFFL_SIR_GOP_2_20181212T111916_20181212T10938_C001  CS_OFFL_SIR_GOP_2_20181212T111916_20181212T109802_C001  CS_OFFL_SIR_GOP_2_20181212T1109802_C001  CS_OFFL_SIR_GOP_2_20181212T1109802_C00181212T1109802_C001  CS_OFFL_SIR_GOP_2_20181212T1109802_C00181212T109802_C001  CS_OFFL_SIR_GOP_2_20181212T1109802_C00181212T109802_C001  CS_OFFL_SIR_GOP_2_20181212T1109802_C00181212T109802_C0018	CS_OFFL_SIR_GOP_220181212T030309_20181212T035244_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T062136_20181212T062136_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T062136_20181212T071111_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T060049_20181212T0690049_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T0690049_20181212T069003_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T069003_20181212T102938_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T102938_20181212T11916_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T11916_20181212T102938_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T11916_20181212T102938_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T10852_20181212T134806_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T1043743_20181212T1043743_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T10633_20181212T10633_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T10633_20181212T10633_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T10633_20181212T10633_C001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or	CS_OFFL_SIR_GOP_220181212T035244_20181212T044222_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T062136_20181212T063049_C001  Cs_OFFL_SIR_GOP_2_20181212T060049_20181212T080049_C001  Cs_OFFL_SIR_GOP_2_20181212T080049_20181212T085025_C001  Cs_OFFL_SIR_GOP_2_20181212T085025_20181212T094003_C001  Cs_OFFL_SIR_GOP_2_20181212T095025_20181212T094003_C001  Cs_OFFL_SIR_GOP_2_20181212T094003_20181212T102938_C001  Cs_OFFL_SIR_GOP_2_20181212T102338_20181212T111916_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T102938_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T102938_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T1111916_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T1109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109503_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109503_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109503_C001  Cs_OFFL_SIR_GOP_2_20181212T109502_20181212T109502_C001  Cs_OFFL_SIR_GOP_2_20181212T1	CS_OFFL_SIR_GOP_220181212T044222_20181212T053158_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T080049_20181212T088025_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T080049_20181212T094003_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T080032_20181212T1094003_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T102938_20181212T11094003_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T111916_20181212T120852_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T1120852_20181212T120852_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T125830_20181212T134806_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T13473_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134373_20181212T159_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T16657_20181212T16657_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T16657_20181212T176510_0011  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T176510_20181212T16550_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T16550_20181212T16550_0001  Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or	CS_OFFL_SIR_GOP_220181212T053158_20181212T062136_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T080049_20181212T08003_C001  Cs_OFFL_SIR_GOP_2_20181212T080039_20181212T08003_C001  Cs_OFFL_SIR_GOP_2_20181212T09003_20181212T10838_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T09003_20181212T11918_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T1102838_20181212T11918_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T110852_20181212T10852_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T128530_20181212T128530_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T128530_20181212T134806_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T1343743_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T152719_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T1761857_20181212T16657_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T176633_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T1764546_20181212T195540_C001  Ccan Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T14375200_C011  Ccan Retracking Quality Flag  The Oce	CS_OFFL_SIR_GOP_220181212T062136_20181212T071111_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T085025_20181212T094003_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T102938_20181212T11916_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T111916_20181212T119852_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T11916_20181212T120852_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T120852_20181212T13830_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T134343_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134343_20181212T134343_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T143743_20181212T152719_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T161657_20181212T161657_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T176633_20181212T176633_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T20500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been	CS_OFFL_SIR_GOP_220181212T071111_20181212T080049_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_GOP_2_20181212T102938_20181212T111916_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T111916_20181212T125830_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T125830_20181212T134806_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T143743_20181212T152719_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T152719_20181212T16657_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T176633_20181212T176833_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T20500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T21437_20181212T222531_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or	CS_OFFL_SIR_GOP_220181212T085025_20181212T094003_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T11916_20181212T120852_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T125830_20181212T134806_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T134743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T143743_20181212T152719_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T152719_20181212T16657_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T170633_20181212T176633_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T170633_20181212T175610_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T10500_20181212T20500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T20500_20181212T21437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T20500_20181212T20500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set	CS_OFFL_SIR_GOP_220181212T094003_20181212T102938_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T125830_20181212T134806_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T134806_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T143743_20181212T152719_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T152719_20181212T161657_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T161657_20181212T170633_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T170633_20181212T175610_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202413_20181212T202413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202413_20181212T202413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has b	CS_OFFL_SIR_GOP_220181212T102938_20181212T111916_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T134806_20181212T143743_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T143743_20181212T152719_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T161657_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T161657_20181212T170633_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T176633_20181212T175610_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T20500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one o	CS_OFFL_SIR_GOP_220181212T111916_20181212T120852_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_GOP_2_20181212T161657_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T170633_20181212T170633_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T170633_20181212T175610_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T134806_20181212T143743_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T161657_20181212T170633_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T175610_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T143743_20181212T152719_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T170633_20181212T175610_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T152719_20181212T161657_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T184546_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T220413_20181212T225351_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T161657_20181212T170633_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T184546_20181212T193524_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T170633_20181212T175610_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T193524_20181212T202500_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T220413_20181212T225351_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T175610_20181212T184546_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T202500_20181212T211437_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T220413_20181212T225351_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T184546_20181212T193524_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T211437_20181212T220413_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20181212T220413_20181212T225351_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T193524_20181212T202500_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T220413_20181212T225351_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T202500_20181212T211437_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_GOP_220181212T211437_20181212T220413_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181212T225351_20181212T234327_C001  Ocean Retracking Quality Flag  The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220181212T220413_20181212T225351_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_GOP_220181212T225351_20181212T234327_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.