

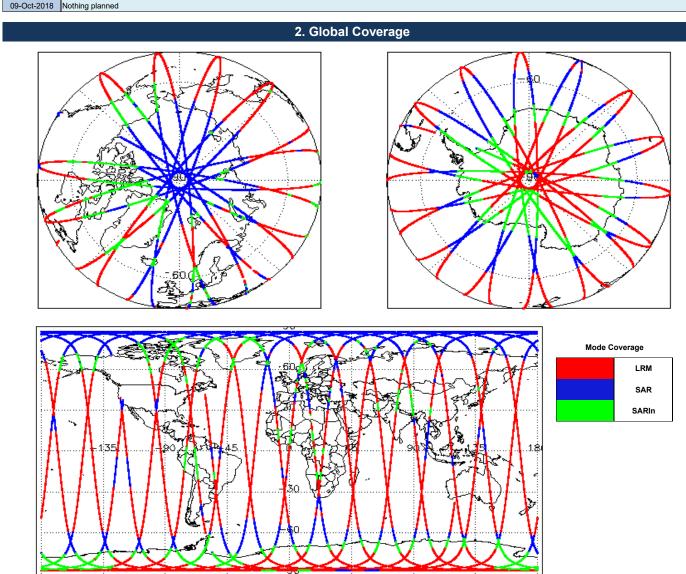
# IDEAS+ Daily Report for GOP data:

# <u>08/10/2018</u>

on out Duoduotion.	07.11 0040	Check	L1 & L2	P2P
eport Production:	07-Nov-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Dura a ser a la sala	d: CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Overview

wission / instrument news			
07-Oct-2018	None		
08-Oct-2018	None		



## 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

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:

## 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. Number of products with errors: 0

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: 0				
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: 2				

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20181008T004013_20181008T005311_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20181008T190425_20181008T190444_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20181008T093237_20181008T095853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181008T190719_20181008T190733_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181008T224123_20181008T225411_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181008T225611_20181008T231546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T005753_20181008T010209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T074341_20181008T074434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T110106_20181008T110226_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T110531_20181008T110753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T124433_20181008T124642_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T141939_20181008T142431_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181008T223122_20181008T223221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181008T064003_20181008T064527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181008T155044_20181008T155147_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181008T173351_20181008T174154_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: 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. 0

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). 0

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## Number of products with errors:

## 5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181008T004013_20181008T005311_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20181008T190425_20181008T190444_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 78

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181007T235149_20181008T000605_C001	Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T000913_20181008T001408_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T001445_20181008T001602_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T002245_20181008T002621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T004013_20181008T005311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T013033_20181008T014447_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T014852_20181008T015336_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T020111_20181008T022649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T025953_20181008T032356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T032840_20181008T033235_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T033257_20181008T033621_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T034000_20181008T035053_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T035627_20181008T040621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T042906_20181008T050323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T050705_20181008T051149_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T052044_20181008T055321_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T060505_20181008T060803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T063759_20181008T064002_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T064654_20181008T065217_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T065942_20181008T072025_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T072312_20181008T073441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T074434_20181008T074819_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T080426_20181008T081059_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T081105_20181008T082039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T082621_20181008T083115_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T083819_20181008T091049_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T092503_20181008T092544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T093237_20181008T095853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T101800_20181008T103253_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T103324_20181008T103444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T103926_20181008T104710_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T110753_20181008T112325_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T112540_20181008T114032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T114719_20181008T114933_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T115014_20181008T115433_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T115708_20181008T121112_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T121252_20181008T122906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T124416_20181008T124432_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T124643_20181008T130243_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T130720_20181008T132050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T132510_20181008T133336_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T133706_20181008T135841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T142432_20181008T143214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T143432_20181008T150031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T150413_20181008T150608_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20181008T150700_20181008T151148_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T151644_20181008T154050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T155302_20181008T155347_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T161327_20181008T162320_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T162858_20181008T163824_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T164619_20181008T165216_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T165538_20181008T172247_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T173012_20181008T173303_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T174505_20181008T181734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T182527_20181008T183047_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T190833_20181008T191230_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T192411_20181008T193330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T193615_20181008T195735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T200417_20181008T200528_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T200535_20181008T200942_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T201505_20181008T202448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T202636_20181008T203241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T203421_20181008T203911_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. 80

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181007T235149_20181008T000605_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_20181008T000913_20181008T001408_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T001445_20181008T001602_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T002245_20181008T002621_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_20181008T004013_20181008T005311_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_20181008T013033_20181008T014447_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_20181008T014852_20181008T015336_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T020111_20181008T022649_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_20181008T025953_20181008T032356_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_20181008T032840_20181008T033235_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T033257_20181008T033621_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T034000_20181008T035053_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_20181008T035627_20181008T040621_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_20181008T042906_20181008T050323_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_20181008T050705_20181008T051149_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T052044_20181008T055321_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_20181008T060505_20181008T060803_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_20181008T064654_20181008T065217_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T065942_20181008T072025_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_20181008T072312_20181008T073441_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_20181008T074434_20181008T074819_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_20181008T080426_20181008T081059_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_20181008T081105_20181008T082039_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_20181008T082621_20181008T083115_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181008T083819_20181008T091049_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\_20181008T092503\_20181008T092544\_C001 CS OFFL SIR GOPM 2 20181008T093237 20181008T095853 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T100828\_20181008T101020\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T101800\_20181008T103253\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T103324\_20181008T103444\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T103926\_20181008T104710\_C001 CS OFFL SIR GOPM 2 20181008T110753 20181008T112325 C001 CS OFFL SIR GOPM 2 20181008T112540 20181008T114032 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T114719\_20181008T114933\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T115014\_20181008T115433\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T115708\_20181008T121112\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T121252\_20181008T122906\_C001 CS OFFL SIR GOPM 2 20181008T124416 20181008T124432 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T124643\_20181008T130243\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T130720\_20181008T132050\_C001 CS OFFL SIR GOPM 2 20181008T132510 20181008T133336 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T133706\_20181008T135841\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T142432\_20181008T143214\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T143432\_20181008T150031\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T150413\_20181008T150608\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T150700\_20181008T151148\_C001 CS OFFL SIR GOPM 2 20181008T151644 20181008T154050 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T155302\_20181008T155347\_C001 CS OFFL SIR GOPM 2 20181008T161327 20181008T162320 C001 CS OFFL SIR GOPM 2 20181008T162858 20181008T163824 C001 CS OFFL SIR GOPM 2 20181008T164619 20181008T165216 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T165538\_20181008T172247\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T173012\_20181008T173303\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T174505\_20181008T181734\_C001 CS OFFL SIR GOPM 2 20181008T182527 20181008T183047 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T183723\_20181008T183845\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T190833\_20181008T191230\_C001 CS OFFL SIR GOPM 2 20181008T192411 20181008T193330 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T193615\_20181008T195735\_C001 CS OFFL SIR GOPM 2 20181008T200417 20181008T200528 C001 CS OFFL SIR GOPM 2 20181008T200535 20181008T200942 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T201505\_20181008T202448\_C001 CS OFFL SIR GOPM 2 20181008T202636 20181008T203241 C001 CS OFFL SIR GOPM 2 20181008T203421 20181008T203911 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T210109\_20181008T213613\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181008T214447\_20181008T214753\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status Lee Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or

more records. The SWH and Ocean Averaging Status Flags have been set for one or

more records. The SWH and Ocean Averaging Status Flags have been set for one or

more records. The SWH and Ocean Averaging Status Flags have been set for one or

more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has 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.

62

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. GOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

2

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220181008T001430_20181008T010410_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220181008T182600_20181008T191539_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 6.6 P2P Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220181007T232456_20181008T001430_C002	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_220181008T001430_20181008T010410_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_220181008T010410_20181008T015344_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_220181008T015344_20181008T024323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T024323_20181008T033258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T033258_20181008T042237_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_220181008T042237_20181008T051211_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_220181008T051211_20181008T060150_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T060150_20181008T065125_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_220181008T065125_20181008T074104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T074104_20181008T083038_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_220181008T083038_20181008T092018_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T092018_20181008T100952_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T100952_20181008T105931_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T105931_20181008T114905_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_220181008T114905_20181008T123845_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_220181008T123845_20181008T132819_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T132819_20181008T141758_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_220181008T141758_20181008T150733_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T150733_20181008T155712_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_220181008T155712_20181008T164646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T164646_20181008T173625_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_220181008T173625_20181008T182600_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181008T182600_20181008T191539_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_220181008T191539_20181008T200513_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_220181008T200513_20181008T205453_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_220181008T205453_20181008T214427_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_220181008T214427_20181008T223406_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_220181008T223406_20181008T232340_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_220181008T232340_20181009T001320_C002	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. 30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181007T232456_20181008T001430_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T001430_20181008T010410_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_20181008T010410_20181008T015344_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_20181008T015344_20181008T024323_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_220181008T024323_20181008T033258_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_20181008T033258_20181008T042237_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_20181008T042237_20181008T051211_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_220181008T051211_20181008T060150_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_20181008T060150_20181008T065125_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_20181008T065125_20181008T074104_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_20181008T074104_20181008T083038_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_20181008T083038_20181008T092018_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_20181008T092018_20181008T100952_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_20181008T100952_20181008T105931_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_20181008T105931_20181008T114905_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_220181008T114905_20181008T123845_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_20181008T123845_20181008T132819_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_20181008T132819_20181008T141758_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_20181008T141758_20181008T150733_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_20181008T150733_20181008T155712_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_20181008T155712_20181008T164646_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_20181008T164646_20181008T173625_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_220181008T173625_20181008T182600_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_20181008T182600_20181008T191539_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_20181008T191539_20181008T200513_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_220181008T200513_20181008T205453_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_20181008T205453_20181008T214427_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_20181008T214427_20181008T223406_C001
CS_OFFL_SIR_GOP_2_20181008T223406_20181008T232340_C001
CS OFFL SIR GOP 2 20181008T232340 20181009T001320 C002

SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

## 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: 29

CS_OFFL_SIR_GOP_2_20151000710140_20151005705740_C001         Cean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201510007105432_0016007057352         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201510007105432_00160027057329_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201510007105127_201610007105427_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201510007105121_201100         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20151000710510_20120_00110         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20151000710510_20120_00110         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_2015100071050512_2016100071005052_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_2015100071000710_010071000710_010001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_2015100	Product	Test Failed	Description
C2_OFFL_SIR_GOP20181008705442_20181008702432_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_20181008702423_20181008703228_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_201810087054237_201910087051211_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_201810087051211_201810087061201_2011         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_201810087061201_20181008706120_2001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_20181008706120_20181008706210_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_201810087062038_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_201810087062018_2018100087092016_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3_OFFL_SIR_GOP_2_201810087106293_2018100871042935_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           C3	CS_OFFL_SIR_GOP_220181008T001430_20181008T010410_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
C3, OFFL_SIR_GOP_2_201610001034232, 201610001033258, C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C4_OFFL_SIR_GOP_2_201610001042237_201610001042237_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20161000105121_201610001050_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20161000105125_20161000105125_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_2016100010501201_20161000103038_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201610001006122018_0000100522010       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201610001100522018_010001100522_0010       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20161000110052_00101       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20161000110052_0011       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20161000110052_0011       Ocean Retrack	CS_OFFL_SIR_GOP_2_20181008T010410_20181008T015344_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CB_OFFL_SIR_GOP_2_20181008T042237_20181008T042237_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T042237_20181008T06121_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T060150_20181008T060152_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T060152_20181008T074104_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T083038_20181008T082018_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T0082018_20181008T109920         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T10992018_20111008T109920         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T109931_2011008T109931_2001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T142845_20181008T132845_20101         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been se	CS_OFFL_SIR_GOP_2_20181008T015344_20181008T024323_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
C3_OFFL_SIR_GOP_2_201810087042327_201810087051211_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087050151_201810087050152_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087050152_201810087074104_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087052018_201810087103038_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087103932_20181008710392_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20181008710393_20181008710393_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_20181008710393_201810087114095_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087132819_201810087132819_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087132819_201810087132819_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         C5_OFFL_SIR_GOP_2_201810087132	CS_OFFL_SIR_GOP_2_20181008T024323_20181008T033258_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CSOFELSIR_GOP_2_20181008T061211_20181008T06150_2001Ocean Retracking Quality FlagThe Ocean Retracking Qua	CS_OFFL_SIR_GOP_2_20181008T033258_20181008T042237_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T060150_20181008T045125_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T04104_20181008T03038_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T03038_20181008T092018_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T092018_20181008T109822_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T109852_20181008T109852_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T109851_20181008T114905_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T132845_20181008T132845_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_20181008T132845_20181008T132845_2001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_0181008T14753_20181008T147532_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_GOP_2_0181008T16733	CS_OFFL_SIR_GOP_2_20181008T042237_20181008T051211_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T074104_20181008T074104_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T074104_20181008T074104_20181008T092018_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T0702018_20181008T092018_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T100932_20181008T100931_2001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T100931_20181008T114905_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T114905_20181008T114905_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T114905_20181008T132815_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20181008T132815_20181008T132815_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_0181008T147582_20181008T147582_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SI	CS_OFFL_SIR_GOP_2_20181008T051211_20181008T060150_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_201810087074104_201810087083038_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201810087082018_201810087092018_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201810087092018_201810087100952_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008710952_201810087105931_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201810087113045_201810087113945_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_2018100871132815_2018100871132819_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_2018100871132819_20181008714758_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_2018100871132819_201810087150733_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_201810087113692_01810087156712_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20181008T060150_20181008T065125_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T03038_20181008T032018_C001         Ccean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T100952_20181008T100952_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T100952_20181008T105931_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T114905_20181008T114905_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T114905_20181008T123845_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T132819_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T14758_20181008T14758_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T169733_20181008T169733_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20181008T169733_20181008T173625_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20181008T065125_20181008T074104_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T092018_20181008T100982_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T100952_0181008T105931_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T105931_0018108T114905_C0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T123845_20181008T132845_2011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T132845_20181008T132845_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T132819_20181008T141758_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T150733_0181008T150733_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T150733_0181008T155712_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T164646_0181008T173625_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T182600_20181008T19539_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T19539_0181008T205453_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has b	CS_OFFL_SIR_GOP_2_20181008T074104_20181008T083038_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T100952_20181008T105931_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T105931_20181008T114905_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T114905_20181008T1123845_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T123845_20181008T123845_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T123845_20181008T1432819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T141758_20181008T141758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T140733_20181008T145712_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T165712_20181008T166466_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T165712_20181008T166466_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T165712_20181008T166466_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T165712_20181008T165712_C001Ocean Retracking Quality FlagThe Ocean Retracking Qualit	CS_OFFL_SIR_GOP_2_20181008T083038_20181008T092018_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181008T115931_20181008T114905_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T114905_20181008T123445_2001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T123445_20181008T132819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T132819_20181008T141758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T141758_20181008T141758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T141758_20181008T150733_20101Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T16464_20181008T165712_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T16464_20181008T165762_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T16464_20181008T19539_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T16359_20181008T20513_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20181008T16353_20181008T205453_20181008T205453_20181008T205453_20181008T205453_20181008T205453_20181008T205453_201810	CS_OFFL_SIR_GOP_2_20181008T092018_20181008T100952_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_220181008T232340_20181009T001320_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.