



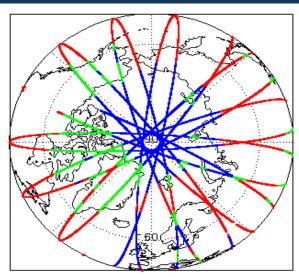
## 1. Overview

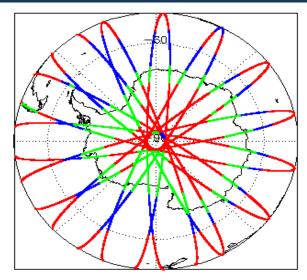
Report Production:	24-Sep-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

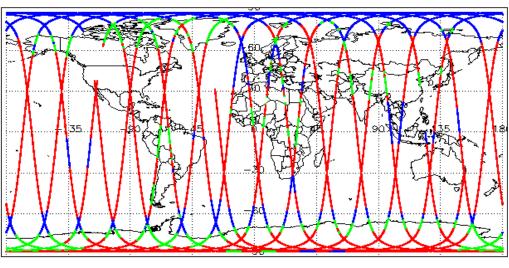
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

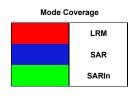
Mission / Instrument News		
25-Aug-2018	None	
26-Aug-2018	None	
27-Aug-2018	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Number of products with errors:

0

### 4.2 L1B Product Header Analysis

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

### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180826T140751_20180826T141531_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.

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180826T102023_20180826T105549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180826T120010_20180826T121644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180826T122124_20180826T123553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180826T133905_20180826T135351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180826T190834_20180826T191531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T010410_20180826T010506_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T024205_20180826T024417_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T115226_20180826T115759_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T142219_20180826T142239_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T142243_20180826T142248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T145616_20180826T150006_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T173503_20180826T173527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T173625_20180826T173653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180826T205048_20180826T205152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180826T083744_20180826T084149_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. GOP Level 2 Data Quality Check

# 5.1 L2 Product Format Check

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

Number of products with errors:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180826T140751_20180826T141531_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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180825T233407_20180826T000913_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T001150_20180826T001716_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR GOPM 2 20180826T002817 20180826T004046 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180826T004106 20180826T005831 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T011957_20180826T013140_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T013343_20180826T014826_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T015115_20180826T015613_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180826T020541_20180826T021330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T022212_20180826T023826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T031308_20180826T032700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T033034_20180826T033525_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T034319_20180826T041739_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T044329_20180826T050553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T051110_20180826T051441_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR GOPM 2 20180826T051503 20180826T051830 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T052153_20180826T054922_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T061734_20180826T064534_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T064856_20180826T065354_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T070140_20180826T071204_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T071740_20180826T073524_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T074655_20180826T075411_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180826T080054_20180826T080203_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T082043_20180826T082436_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T082854_20180826T083426_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T084149_20180826T091736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T092630_20180826T092839_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T094651_20180826T100256_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T102023_20180826T105549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T110554_20180826T110742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T111759_20180826T112231_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T112315_20180826T114055_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T115028_20180826T115225_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T120010_20180826T121644_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T122124_20180826T123553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T124810_20180826T130606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180826T130741 20180826T132148 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T132932_20180826T133135_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T133238_20180826T133637_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T133905_20180826T135351_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T142550_20180826T142632_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T142702_20180826T144421_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T145035_20180826T145615_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T150006_20180826T150244_C001	Ocean Range Averaging Status	records.  The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T150735_20180826T151539_C001	Ice Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180826T151845_20180826T153301_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180826T160730_20180826T164241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T164853_20180826T165422_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T165905_20180826T172207_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T175411_20180826T180522_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T181100_20180826T182127_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T182823_20180826T183307_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20180826T183744_20180826T185638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T185640_20180826T190433_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T190834_20180826T191531_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T192752_20180826T195918_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T200732_20180826T201302_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T201645_20180826T202049_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T205152_20180826T205441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T210639_20180826T213934_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T214634_20180826T215147_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T215721_20180826T221326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T224309_20180826T231814_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T232651_20180826T233047_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T233553_20180827T000927_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180826T150434_20180826T150436_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180826T173625_20180826T173653_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180826T182639_20180826T182823_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180826T000913_20180826T001028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180826T020439_20180826T020541_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180825T233407_20180826T000913_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_20180826T001150_20180826T001716_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T002817_20180826T004046_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_20180826T004106_20180826T005831_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_20180826T011957_20180826T013140_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_20180826T013343_20180826T014826_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_20180826T015115_20180826T015613_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T020541_20180826T021330_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_20180826T022212_20180826T023826_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_20180826T031308_20180826T032700_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_20180826T033034_20180826T033525_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T034319_20180826T041739_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_20180826T044329_20180826T050553_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_20180826T051110_20180826T051441_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T051503_20180826T051830_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T052153_20180826T054922_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_20180826T061734_20180826T064534_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_20180826T064856_20180826T065354_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T070140_20180826T071204_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_20180826T071740_20180826T073524_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_20180826T074655_20180826T075411_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_20180826T080054_20180826T080203_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_20180826T082854_20180826T083426_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T084149_20180826T091736_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_20180826T092630_20180826T092839_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_20180826T094651_20180826T100256_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_20180826T102023_20180826T105549_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_20180826T110554_20180826T110742_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_20180826T111759_20180826T112231_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_20180826T112315_20180826T114055_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_20180826T115028_20180826T115225_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T120010_20180826T121644_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_20180826T122124_20180826T123553_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_20180826T124810_20180826T130606_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_20180826T130741_20180826T132148_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_20180826T132932_20180826T133135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T133238_20180826T133637_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T133905_20180826T135351_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_20180826T142702_20180826T144421_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_20180826T145035_20180826T145615_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_20180826T150735_20180826T151539_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T151845_20180826T153301_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_20180826T160730_20180826T164241_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_20180826T164614_20180826T164821_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T164853_20180826T165422_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T165905_20180826T172207_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_20180826T175411_20180826T180522_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_20180826T181100_20180826T182127_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_20180826T182823_20180826T183307_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T183744_20180826T185638_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_20180826T185640_20180826T190433_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_20180826T190834_20180826T191531_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_20180826T192752_20180826T195918_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_20180826T200732_20180826T201302_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T201645_20180826T202049_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_20180826T205152_20180826T205441_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_20180826T210639_20180826T213934_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_20180826T214634_20180826T215147_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T215721_20180826T221326_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_20180826T224309_20180826T231814_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_20180826T232651_20180826T233047_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180826T233553_20180827T000927_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_20180826T150434_20180826T150436_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_20180826T173625_20180826T173653_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_20180826T182639_20180826T182823_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180826T000913_20180826T001028_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_20180826T020439_20180826T020541_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: 55

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

## 6.1 P2P Product Format Check

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

### 6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180826T133108_20180826T142044_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

Number of products with errors:

Product Test Failed Description The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS OFFL SIR GOP 2 20180825T232742 20180826T001720 C001 Range Averaging Status The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS\_OFFL\_SIR\_GOP\_2\_\_20180826T001720\_20180826T010655\_C001 Range Averaging Status or more records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T010655\_20180826T015633\_C001 Range Averaging Status or more records. The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20180826T015633 20180826T024609 C001 Ocean Range Averaging Status Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T024609\_20180826T033547\_C001 Range Averaging Status or more records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20180826T033547\_20180826T042522\_C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS OFFL SIR GOP 2 20180826T042522 20180826T051501 C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20180826T051501\_20180826T060436\_C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS OFFL SIR GOP 2 20180826T060436 20180826T065414 C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20180826T065414 20180826T074350 C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T074350\_20180826T083328\_C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20180826T083328 20180826T092303 C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS OFFL SIR GOP 2 20180826T092303 20180826T101241 C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_20180826T101241\_20180826T110217\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20180826T110217\_20180826T115155\_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20180826T115155\_20180826T124130\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20180826T124130\_20180826T133108\_C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T133108\_20180826T142044\_C001 Range Averaging Status or more records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T142044\_20180826T151022\_C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T151022\_20180826T155957\_C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS OFFL SIR GOP 2 20180826T155957 20180826T164936 C001 Range Averaging Status or more records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T164936\_20180826T173911\_C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T173911\_20180826T182849\_C001 Range Averaging Status or more records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS OFFL SIR GOP 2 20180826T182849 20180826T191825 C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20180826T191825\_20180826T200803\_C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T200803\_20180826T205738\_C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20180826T205738 20180826T214716 C001 Ocean Range Averaging Status records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_20180826T214716\_20180826T223652\_C001 Range Averaging Status or more records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20180826T223652\_20180826T232630\_C001 Range Averaging Status Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS OFFL SIR GOP 2 20180826T232630 20180827T001605 C002 Range Averaging Status 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:

30

Product	Test Failed	Description
	SWH Averaging Status, Ocean	
CS_OFFL_SIR_GOP_220180825T232742_20180826T001720_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_2_20180826T001720_20180826T010655_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
	SWH Averaging Status, Ocean	
CS_OFFL_SIR_GOP_220180826T010655_20180826T015633_C001	Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
	Backscatter Averaging Status	
CS_OFFL_SIR_GOP_220180826T015633_20180826T024609_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	
CS_OFFL_SIR_GOP_220180826T024609_20180826T033547_C001	Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
	Backscatter Averaging Status	of more records.
CS OFFL SIR GOP 2 20180826T033547 20180826T042522 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_GOP_2_20180826T042522_20180826T051501_C001	Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one
	Backscatter Averaging Status	or more records.
CS_OFFL_SIR_GOP_220180826T051501_20180826T060436_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOP_220180826T060436_20180826T065414_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one
00_0112_0111_001_2201000201000430_201000201003414_0001	Backscatter Averaging Status	or more records.
CS_OFFL_SIR_GOP_220180826T065414_20180826T074350_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_OFFL_SIR_GOF_2201808201003414_201808201014330_C001	Backscatter Averaging Status	more records.
00 000 000 0 00400000000000000000000000	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T074350_20180826T083328_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
00.0551.015.005.0.00100005500000.00100005500000.0004	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOP_220180826T083328_20180826T092303_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T092303_20180826T101241_C001	Backscatter Averaging Status, Ice	or more records.
	Backscatter Averaging Status SWH Averaging Status, Ocean	
CS_OFFL_SIR_GOP_220180826T101241_20180826T110217_C001	Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one
	Backscatter Averaging Status	or more records.
CS_OFFL_SIR_GOP_220180826T110217_20180826T115155_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWILL and Ocean Averaging Status Flags have been get for one or
CS_OFFL_SIR_GOP_220180826T115155_20180826T124130_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CC OFFI CID COD 2 20400020T424420 20400020T422400 C004	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOP_220180826T124130_20180826T133108_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOP_220180826T133108_20180826T142044_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_GOP_2_20180826T142044_20180826T151022_C001	Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one
	Backscatter Averaging Status	or more records.
00 0551 015 005 0 004000057454000 004000057455057 0004	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T151022_20180826T155957_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
	SWH Averaging Status, Ocean	T. 0.41.0
CS_OFFL_SIR_GOP_2_20180826T155957_20180826T164936_C001	Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
	Backscatter Averaging Status	of more records.
CS OFFL SIR GOP 2 20180826T164936 20180826T173911 C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one
35_5112_5111_5511_501251154550_201000201175911_6001	Backscatter Averaging Status	or more records.
CS OFFI SIR GOR 2 20180826T172011 20180826T182840 C004	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOP_220180826T173911_20180826T182849_C001	Backscatter Averaging Status	more records.
CC OFFI CID COD 2 20400020T402040 20400020T404025 C004	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T182849_20180826T191825_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
00 000 000 000 0 0000000000000000000000	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOP_220180826T191825_20180826T200803_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T200803_20180826T205738_C001	Backscatter Averaging Status, Ice	or 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_GOP_2_20180826T205738_20180826T214716_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T214716_20180826T223652_C001	Backscatter Averaging Status, Ice	or more records.
	Backscatter Averaging Status	
CS_OFFL_SIR_GOP_220180826T223652_20180826T232630_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one
	Backscatter Averaging Status	or more records.
	SWH Averaging Status, Ocean	The SWH, Ocean and Ice Averaging Status Flags have been set for one
CS_OFFL_SIR_GOP_220180826T232630_20180827T001605_C002	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
	Dackscatter Averaging Status	

# 6.8 P2P Ocean Retracking Quality Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180825T232742_20180826T001720_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T001720_20180826T010655_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T010655_20180826T015633_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T015633_20180826T024609_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T033547_20180826T042522_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T042522_20180826T051501_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T051501_20180826T060436_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T060436_20180826T065414_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T065414_20180826T074350_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T074350_20180826T083328_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T083328_20180826T092303_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T092303_20180826T101241_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T101241_20180826T110217_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T110217_20180826T115155_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T115155_20180826T124130_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T124130_20180826T133108_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T133108_20180826T142044_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T142044_20180826T151022_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T155957_20180826T164936_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T164936_20180826T173911_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T173911_20180826T182849_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T182849_20180826T191825_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T191825_20180826T200803_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T200803_20180826T205738_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180826T205738_20180826T214716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180826T214716_20180826T223652_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180826T223652_20180826T232630_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180826T232630_20180827T001605_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.