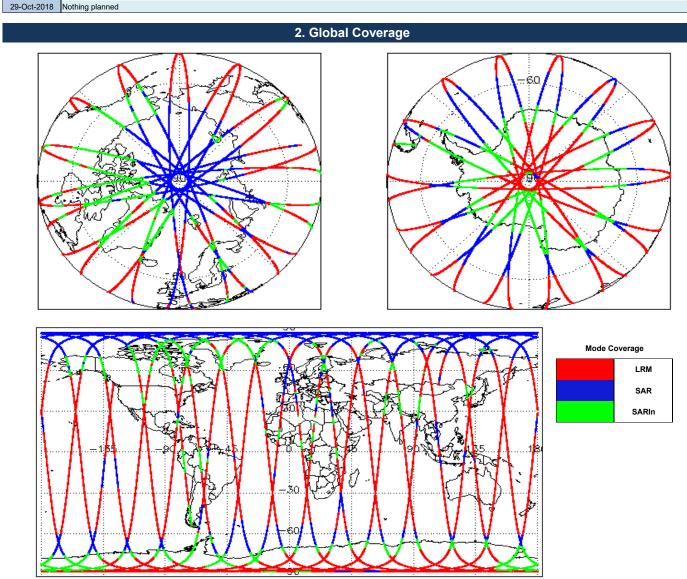


# IDEAS+ Daily Report for GOP data:

# 28/10/2018

1. Overview				
	00 Nov 0040	Check	L1 & L2	P2P
Report Production:	29-Nov-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrueSet Occan Brosser	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Useu.	Ed: L1B, L2 & P2P Science Data	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			
27-Oct-2018	None		
28-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: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM1B_20181028T230748_20181028T232017_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_20181028T104251_20181028T105859_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181028T232458_20181028T233753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T003213_20181028T003722_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T034816_20181028T035238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T080647_20181028T081159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T104007_20181028T104251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T111622_20181028T112232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T121605_20181028T121819_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T125843_20181028T130024_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T170841_20181028T170922_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T202432_20181028T202710_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T212237_20181028T212424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181028T234128_20181028T234658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T053842_20181028T054044_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T071029_20181028T071741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T075632_20181028T080106_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T161335_20181028T161802_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T170922_20181028T171709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T184733_20181028T184845_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181028T212424_20181028T213103_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:

## 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	ect.
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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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0

Number of products with errors:

## 5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181028T230748_20181028T232017_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. 84

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181028T000409_20181028T001057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T001539_20181028T002013_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T002256_20181028T002844_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T003006_20181028T003213_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T005925_20181028T012001_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T012517_20181028T012906_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T012913_20181028T012922_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T012928_20181028T013206_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T013634_20181028T020406_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T023600_20181028T025929_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T030259_20181028T030820_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T030826_20181028T031153_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T031548_20181028T032623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T033201_20181028T034815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T040138_20181028T040252_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T041115_20181028T043115_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T043450_20181028T043847_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20181028T044300 20181028T045057 C001	Ice Range Averaging Status	records. The loe Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T045638_20181028T052812_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20181028T054044 20181028T054232 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T060329_20181028T061658_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20181028T062232 20181028T062746 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20181028T063503 20181028T065601 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T065846_20181028T071029_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20181028T071934 20181028T072315 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T073846_20181028T074451_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T074638_20181028T075632_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201810281074036_201810201075032_0001 CS_OFFL_SIR_GOPM_2_201810281080412_201810281080647_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201810281080412_2018102810800412_001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028109113_201810281094140_0001 CS_OFFL_SIR_GOPM_2_201810281090153_201810281093421_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_20181028T094359_20181028T094554_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T095325_20181028T100822_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T100848_20181028T102115_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T104251_20181028T105859_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T111524_20181028T111622_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T112232_20181028T112513_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T112531_20181028T113000_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T113306_20181028T114647_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T114827_20181028T115110_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T122137_20181028T122353_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181028T122516_20181028T123105_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20181028T123349_20181028T123630_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T123636_20181028T125637_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T130024_20181028T130908_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T131252_20181028T133623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20181028T140825_20181028T143554_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T143953_20181028T144126_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T144240_20181028T144701_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T145212_20181028T151851_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T152703_20181028T152932_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T154348_20181028T155853_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T160427_20181028T161335_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T162153_20181028T162740_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T163111_20181028T163525_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T163850_20181028T164608_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T170648_20181028T170841_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T172029_20181028T175328_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T180058_20181028T180611_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T181209_20181028T182719_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T184330_20181028T184452_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T184544_20181028T184733_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T185748_20181028T190905_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T191150_20181028T193255_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T194105_20181028T194516_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T195045_20181028T200929_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T201011_20181028T201443_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T201646_20181028T202241_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T202241_20181028T202325_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T202347_20181028T202421_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T203623_20181028T211207_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T211431_20181028T211957_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T213103_20181028T214331_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T214429_20181028T220128_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T222304_20181028T223425_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T223628_20181028T225053_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T225358_20181028T225853_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T225932_20181028T230052_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPM_2_20181028T230748_20181028T232017_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPM_2_20181028T232458_20181028T233753_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPN_2_20181028T012922_20181028T012928_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPN_2_20181028T113000_20181028T113141_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPR_2_20181028T144940_20181028T145212_C001	Ocean Range Averaging Sta
CS_OFFL_SIR_GOPR_2_20181028T212009_20181028T212016_C001	Ice Range Averaging Status
CS_OFFL_SIR_GOPR_2_20181028T230323_20181028T230547_C001	Ocean Range Averaging Sta

raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
raging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
ng Status	The Ice Range Averaging Status Flag has been set for one or more records.
raging 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.

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181028T000409_20181028T001057_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T001539_20181028T002013_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T002256_20181028T002844_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T003006_20181028T003213_C001	5 5	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS\_OFFL\_SIR\_GOPM\_2\_20181028T005925\_20181028T012001\_C001 CS OFFL SIR GOPM 2 20181028T012517 20181028T012906 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T012913\_20181028T012922\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T012928\_20181028T013206\_C001 CS OFFL SIR GOPM 2 20181028T013634 20181028T020406 C001 CS OFFL SIR GOPM 2 20181028T023600 20181028T025929 C001 CS OFFL SIR GOPM 2 20181028T030259 20181028T030820 C001 CS OFFL SIR GOPM 2 20181028T030826 20181028T031153 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T031548\_20181028T032623\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T033201\_20181028T034815\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T040138\_20181028T040252\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T041115\_20181028T043115\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T043450\_20181028T043847\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T044300\_20181028T045057\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T045638\_20181028T052812\_C001 CS OFFL SIR GOPM 2 20181028T054044 20181028T054232 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T060329\_20181028T061658\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T062232\_20181028T062746\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T063503\_20181028T065601\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T065846\_20181028T071029\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T071934\_20181028T072315\_C001 CS OFFL SIR GOPM 2 20181028T073846 20181028T074451 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T074638\_20181028T075632\_C001 CS OFFL SIR GOPM 2 20181028T080412 20181028T080647 C001 CS OFFL SIR GOPM 2 20181028T081412 20181028T084740 C001 CS OFFL SIR GOPM 2 20181028T090153 20181028T093421 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T094359\_20181028T094554\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T094757\_20181028T095059\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T095325\_20181028T100822\_C001 CS OFFL SIR GOPM 2 20181028T100848 20181028T102115 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T104251\_20181028T105859\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T111524\_20181028T111622\_C001 CS OFFL SIR GOPM 2 20181028T112232 20181028T112513 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T112531\_20181028T113000\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T113306\_20181028T114647\_C001 CS OFFL SIR GOPM 2 20181028T114827 20181028T115110 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T122137\_20181028T122353\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T122516\_20181028T123105\_C001 CS OFFL SIR GOPM 2 20181028T123349 20181028T123630 C001 CS OFFL SIR GOPM 2 20181028T123636 20181028T125637 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T130024\_20181028T130908\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T131252\_20181028T133623\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T140825\_20181028T143554\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T143953\_20181028T144126\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T144240\_20181028T144701\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T145212\_20181028T151851\_C001 CS OFFL SIR GOPM 2 20181028T152703 20181028T152932 C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T154348\_20181028T155853\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20181028T160427\_20181028T161335\_C001 CS OFFL SIR GOPM 2 20181028T162153 20181028T162740 C001 CS OFFL SIR GOPM 2 20181028T163111 20181028T163525 C001 SWH Averaging Status, Ocean Backscatter Averaging Status Ice 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 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 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 Ice Backscatter Averaging Status Ice 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

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 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 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 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

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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 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 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 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 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 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.

CS_OFFL_SIR_GOPM_2_20181028T163850_20181028T164608_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_20181028T170648_20181028T170841_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_20181028T172029_20181028T175328_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_20181028T180058_20181028T180611_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T181209_20181028T182719_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_20181028T184330_20181028T184452_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_20181028T185748_20181028T190905_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_20181028T191150_20181028T193255_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_20181028T194105_20181028T194516_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T195045_20181028T200929_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_20181028T201646_20181028T202241_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_20181028T202241_20181028T202325_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_20181028T202347_20181028T202421_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_20181028T203623_20181028T211207_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_20181028T211431_20181028T211957_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T213103_20181028T214331_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_20181028T214429_20181028T220128_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_20181028T222304_20181028T223425_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_20181028T223628_20181028T225053_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_20181028T225358_20181028T225853_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T225932_20181028T230052_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181028T230748_20181028T232017_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_20181028T232458_20181028T233753_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_20181028T012922_20181028T012928_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181028T113000_20181028T113141_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_20181028T144940_20181028T145212_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_20181028T212009_20181028T212016_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181028T230323_20181028T230547_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

### 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

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

### 6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0

## 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). 0

0

57

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220181028T225916_20181028T234852_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.

Number of products with errors: 29

Pro Test Faile Description The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_20181027T235006\_20181028T003942\_C002 Ocean Range Averaging Status ecords Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20181028T003942\_20181028T012919\_C001 Range Averaging Status or more records The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS OFFL SIR GOP 2 20181028T012919 20181028T021856 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 20181028T021856 20181028T030833 C001 or more records 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 20181028T030833 20181028T035810 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\_\_20181028T035810\_20181028T044747\_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\_\_20181028T044747\_20181028T053723\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20181028T053723 20181028T062700 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20181028T062700\_20181028T071637\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20181028T071637\_20181028T080614\_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\_\_20181028T080614\_20181028T085550\_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 20181028T085550 20181028T094527 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\_\_20181028T094527\_20181028T103504\_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\_\_20181028T103504\_20181028T112441\_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 20181028T112441 20181028T121417 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\_\_20181028T121417\_20181028T130354\_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\_\_20181028T130354\_20181028T135331\_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 20181028T135331 20181028T144308 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\_\_20181028T144308\_20181028T153245\_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 20181028T153245 20181028T162222 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 20181028T162222 20181028T171158 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\_\_20181028T171158\_20181028T180135\_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 20181028T180135 20181028T185112 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 20181028T185112 20181028T194049 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\_\_20181028T194049\_20181028T203025\_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\_20181028T203025\_20181028T212002\_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\_\_20181028T212002\_20181028T220939\_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\_\_20181028T220939\_20181028T225916\_C001 Range Averaging Statu or more records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20181028T225916 20181028T234852 C001 Ocean Range Averaging Status records.

#### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Number of	products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181027T235006_20181028T003942_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181028T003942_20181028T012919_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_20181028T012919_20181028T021856_C001		The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181028T021856_20181028T030833_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_220181028T030833_20181028T035810_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_20181028T044747_20181028T053723_C001       SWH Averaging Status, Ocean Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for a more records.         CS_OFFL_SIR_GOP_2_20181028T053723_20181028T062700_C001       SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatte	
CS_OFFL_SIR_GOP_2201810281053723_201810281062700_C001 Backscatter Averaging Status more records.	o or
CS_OFFL_SIR_GOP_2_20181028T062700_20181028T071637_C001 SWH Averaging Status, Ocean Backscatter Averaging Status and Ocean Averaging Status Flags have been set for a more records.	ie or
CS_OFFL_SIR_GOP_2_20181028T071637_20181028T080614_C001 SWH Averaging Status, Ocean Backscatter Averaging Status are been set for the set of the	ie or
CS_OFFL_SIR_GOP_2_20181028T080614_20181028T085550_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T085550_20181028T094527_C001 SWH Averaging Status, Ocean Backscatter Averaging Status and Ocean Averaging Status Flags have been set for a more records.	ie or
CS_OFFL_SIR_GOP_2_20181028T094527_20181028T103504_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status ackscatter Averaging Sta	or one
CS_OFFL_SIR_GOP_2_20181028T103504_20181028T112441_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T112441_20181028T121417_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T121417_20181028T130354_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status Averaging Status and Ice Averaging Status Flags have been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T130354_20181028T135331_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status ackscatter Averaging Sta	or one
CS_OFFL_SIR_GOP_2_20181028T135331_20181028T144308_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status access the set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T144308_20181028T153245_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T153245_20181028T162222_C001 SWH Averaging Status, Ocean Backscatter Averaging Status and Ocean Averaging Status Flags have been set for or more records.	ie or
CS_OFFL_SIR_GOP_2_20181028T162222_20181028T171158_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T171158_20181028T180135_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status and Ice Averaging Status Flags have been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T180135_20181028T185112_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status and Ice Averaging Status Flags have been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T185112_20181028T194049_C001 SWH Averaging Status, Ocean Backscatter Averaging Status are been set for the set of the	ie or
CS_OFFL_SIR_GOP_2_20181028T194049_20181028T203025_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T203025_20181028T212002_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status and Ice Averaging Status Flags have been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T212002_20181028T220939_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status are been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T220939_20181028T225916_C001       SWH Averaging Status, Ocean       The SWH, Ocean and Ice Averaging Status Flags have been set or more records.	or one
CS_OFFL_SIR_GOP_2_20181028T225916_20181028T234852_C001       SWH Averaging Status, Ocean       The SWH, Ocean and Ice Averaging Status Flags have been set         Backscatter Averaging Status       Backscatter Averaging Status       or more records.	or one

## 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: 28

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181027T235006_20181028T003942_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T003942_20181028T012919_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T012919_20181028T021856_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T021856_20181028T030833_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T030833_20181028T035810_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T035810_20181028T044747_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T044747_20181028T053723_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T062700_20181028T071637_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T071637_20181028T080614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T080614_20181028T085550_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T085550_20181028T094527_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181028T094527_20181028T103504_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220181028T103504_20181028T112441_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T112441_20181028T121417_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T121417_20181028T130354_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T130354_20181028T135331_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T135331_20181028T144308_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T144308_20181028T153245_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T153245_20181028T162222_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T162222_20181028T171158_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T171158_20181028T180135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T180135_20181028T185112_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T185112_20181028T194049_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T194049_20181028T203025_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T203025_20181028T212002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T212002_20181028T220939_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181028T220939_20181028T225916_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181028T225916_20181028T234852_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.