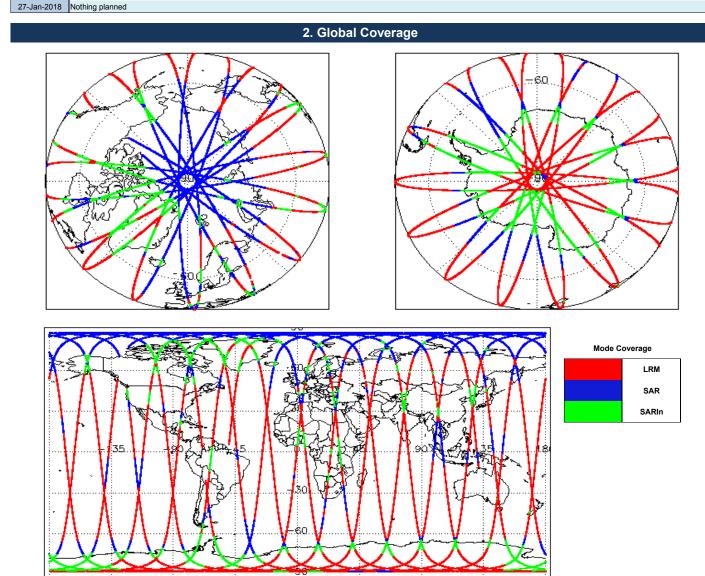


# IDEAS+ Daily Report for GOP data:

# 26/01/2018

1. Overview					
		Check	L1 & L2	P2P	
eport Production:	26-Feb-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal	
Processor used.	CryoSal Ocean Processor	Product Software Check	Nominal	Nominal	
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal	
Data Useu.	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				
25-Jan-2018	None			
26-Jan-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 Descriptor	rs 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 Confiden	e 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.

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### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180126T131728_20180126T133025_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 products over land, but this is to be expected.

### Number of products with errors:

CS_OFFL_SIR_GOPN1B_20180126T043931_20180126T044222_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T064905_20180126T002121_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T102003_20180126T102121_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T115449_20180126T115846_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T115904_20180126T115846_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T115904_20180126T125935_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T185316_20180126T133923_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T203320_20180126T2033941_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T03702_20180126T03928_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T034220_20180126T03928_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T034220_20180126T034327_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T034230_20180126T034327_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20180126T070312_20180126T0703427_C001 Loss of Echo The tracki	Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20180126T064905_20180126T065106_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T102003_20180126T102121_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T115449_20180126T115846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T115904_20180126T120033_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T125321_20180126T125935_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T033820_20180126T033924_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034220_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOP	CS_OFFL_SIR_GOPM1B_20180126T121704_20180126T122704_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180126T102003_20180126T102121_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T115449_20180126T115846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T115904_20180126T120033_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T125321_20180126T125935_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T0302056_20180126T202148_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T03320_20180126T033924_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034220_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOP	CS_OFFL_SIR_GOPN1B_20180126T043931_20180126T044222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180126T115449_20180126T115846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T115904_20180126T120033_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T125321_20180126T125935_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T03320_20180126T233941_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T03702_20180126T03928_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T064905_20180126T065106_C001	Loss of Echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_GOPN1B_20180126T125321_20180126T125935_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T233820_20180126T233941_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T039328_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T115449_20180126T115846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T233820_20180126T233941_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T115904_20180126T120033_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20180126T233820_20180126T233941_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T125321_20180126T125935_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPN1B_20180126T233820_20180126T233941_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T07012_20180126T070936_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T133512_20180126T133923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180126T233820_20180126T233941_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T185316_20180126T185352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T202056_20180126T202148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001 Loss of Echo The tracking echo is missing for one or more records   CS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20180126T233820_20180126T233941_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20180126T003702_20180126T003928_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_GOPR1B_20180126T034230_20180126T034327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR GOPR1B 20180126T082858 20180126T083017 C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20180126T070112_20180126T070936_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_GOPR1B_20180126T082858_20180126T083017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180126T083330_20180126T083817_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20180126T083330_20180126T083817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180126T111641_20180126T112338_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20180126T111641_20180126T112338_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. GOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

## 5.3 L2 Auxiliary Data File Usage Check

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

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).

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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 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_20180126T131728_20180126T133025_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

CS OFFL SIR GOPM 2 20180125T234508 20180126T000050 C001

CS\_OFFL\_SIR\_GOPM\_2\_20180126T000252\_20180126T001213\_C001 CS OFFL SIR GOPM 2 20180126T003437 20180126T003702 C001 CS OFFL SIR GOPM 2 20180126T003928 20180126T005134 C001 CS OFFL SIR GOPM 2 20180126T010758 20180126T010858 C001 CS OFFL SIR GOPM 2 20180126T011455 20180126T011752 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T011800\_20180126T012231\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T012442\_20180126T013919\_C001 CS OFFL SIR GOPM 2 20180126T022624 20180126T022725 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T022728\_20180126T025031\_C001 CS OFFL SIR GOPM 2 20180126T025303 20180126T030131 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T030359\_20180126T032936\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T040315\_20180126T041213\_C001 CS OFFL SIR GOPM 2 20180126T041747 20180126T042846 C001 CS OFFL SIR GOPM 2 20180126T043515 20180126T043931 C001 CS OFFL SIR GOPM 2 20180126T044247 20180126T051238 C001 CS OFFL SIR GOPM 2 20180126T052035 20180126T052106 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T053545\_20180126T055128\_C001 CS OFFL SIR GOPM 2 20180126T055658 20180126T060758 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T061426\_20180126T062011\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T062134\_20180126T062750\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T065910\_20180126T070002\_C001 CS OFFL SIR GOPM 2 20180126T071321 20180126T074746 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T075330\_20180126T075842\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T080039\_20180126T082004\_C001 CS OFFL SIR GOPM 2 20180126T085208 20180126T092041 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T092052\_20180126T092603\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T093131\_20180126T093330\_C001 CS OFFL SIR GOPM 2 20180126T093336 20180126T093751 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T094109\_20180126T101545\_C001 CS OFFL SIR GOPM 2 20180126T103304 20180126T104412 C001 CS OFFL SIR GOPM 2 20180126T104745 20180126T105014 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T105018\_20180126T110534\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T110708\_20180126T111229\_C001 CS OFFL SIR GOPM 2 20180126T111247 20180126T111458 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T112338\_20180126T113601\_C001 CS OFFL SIR GOPM\_2\_20180126T113740\_20180126T115449\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T121704\_20180126T122704\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T122907\_20180126T124425\_C001 CS OFFL SIR GOPM 2 20180126T124633 20180126T125128 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T125204\_20180126T125321\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T125935\_20180126T130328\_C001 CS OFFL SIR GOPM 2 20180126T131728 20180126T133025 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T140748\_20180126T142330\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T142612\_20180126T143056\_C001 CS OFFL SIR GOPM 2 20180126T143707 20180126T150406 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T153707\_20180126T160314\_C001 CS OFFL SIR GOPM 2 20180126T161604 20180126T162809 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T163342\_20180126T164336\_C001 CS OFFL SIR GOPM 2 20180126T171454 20180126T174246 C001

**Test Failed** Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Description 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 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 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 ecords The Ice 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 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 records The Ice 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 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 records The Ice 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 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 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 ecords 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 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 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 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 records The Ice 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 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 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 ecords The Ice 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 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 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 ecords The Ice 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 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 records The Ice 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 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 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 records

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CS_OFFL_SIR_GOPM_2_20180126T174425_20180126T174909_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T175643_20180126T183034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T184329_20180126T184518_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T191515_20180126T191722_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T191922_20180126T192214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T192413_20180126T192936_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T193526_20180126T195740_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T200026_20180126T200936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T202214_20180126T202536_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T204145_20180126T204746_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T204824_20180126T210137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T210341_20180126T210835_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T211442_20180126T214703_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T220929_20180126T223613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T224547_20180126T224740_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T225416_20180126T231200_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T231640_20180126T232420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T233941_20180126T234247_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T234517_20180127T000044_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180126T003205_20180126T003437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180126T021122_20180126T021311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180126T142407_20180126T142612_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T021052_20180126T021122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T033948_20180126T034211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T122704_20180126T122907_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T142330_20180126T142407_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T160314_20180126T160337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T201925_20180126T202056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T225406_20180126T225416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T233708_20180126T233820_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. 81

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180125T234508_20180126T000050_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_20180126T000252_20180126T001213_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_20180126T003437_20180126T003702_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_20180126T003928_20180126T005134_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_20180126T011800_20180126T012231_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T012442_20180126T013919_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_20180126T022624_20180126T022725_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_20180126T022728_20180126T025031_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_20180126T025303_20180126T030131_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T030359_20180126T032936_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_20180126T040315_20180126T041213_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_20180126T041747_20180126T042846_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_20180126T043515_20180126T043931_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_GOPM\_2\_20180126T044247\_20180126T051238\_C001 CS OFFL SIR GOPM 2 20180126T052035 20180126T052106 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T053545\_20180126T055128\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T055658\_20180126T060758\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T061426\_20180126T062011\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T062134\_20180126T062750\_C001 CS OFFL SIR GOPM 2 20180126T071321 20180126T074746 C001 CS OFFL SIR GOPM 2 20180126T075330 20180126T075842 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T080039\_20180126T082004\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T085208\_20180126T092041\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T092052\_20180126T092603\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T093131\_20180126T093330\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T093336\_20180126T093751\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T093944\_20180126T094058\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T094109\_20180126T101545\_C001 CS OFFL SIR GOPM 2 20180126T103304 20180126T104412 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T104745\_20180126T105014\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T105018\_20180126T110534\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T110708\_20180126T111229\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T111247\_20180126T111458\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T112338\_20180126T113601\_C001 CS OFFL SIR GOPM 2 20180126T113740 20180126T115449 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T121704\_20180126T122704\_C001 CS OFFL SIR GOPM 2 20180126T122907 20180126T124425 C001 CS OFFL SIR GOPM 2 20180126T124633 20180126T125128 C001 CS OFFL SIR GOPM 2 20180126T125204 20180126T125321 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T125935\_20180126T130328\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T131728\_20180126T133025\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T140748\_20180126T142330\_C001 CS OFFL SIR GOPM 2 20180126T142612 20180126T143056 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T143102\_20180126T143111\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T143707\_20180126T150406\_C001 CS OFFL SIR GOPM 2 20180126T153707 20180126T160314 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T160559\_20180126T160955\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T161604\_20180126T162809\_C001 CS OFFL SIR GOPM 2 20180126T163342 20180126T164336 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T171454\_20180126T174246\_C001 CS OFFL SIR GOPM 2 20180126T174425 20180126T174909 C001 CS OFFL SIR GOPM 2 20180126T174913 20180126T175244 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T175643\_20180126T183034\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T184329\_20180126T184518\_C001 CS OFFL SIR GOPM 2 20180126T191515 20180126T191722 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T191922\_20180126T192214\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T192413\_20180126T192936\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T193526\_20180126T195740\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T200026\_20180126T200936\_C001 CS OFFL SIR GOPM 2 20180126T202214 20180126T202536 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T204145\_20180126T204746\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T204824\_20180126T210137\_C001 CS OFFL SIR GOPM 2 20180126T210341 20180126T210835 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180126T211442\_20180126T214703\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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_20180126T220929_20180126T223613_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_20180126T224547_20180126T224740_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T225416_20180126T231200_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_20180126T231640_20180126T232420_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_20180126T233941_20180126T234247_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180126T234517_20180127T000044_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_20180126T003205_20180126T003437_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_20180126T021122_20180126T021311_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_20180126T142407_20180126T142612_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180126T021052_20180126T021122_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_20180126T033948_20180126T034211_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_20180126T122704_20180126T122907_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_20180126T142330_20180126T142407_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_20180126T160314_20180126T160337_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_20180126T201925_20180126T202056_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_20180126T225406_20180126T225416_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_20180126T233708_20180126T233820_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
5812 Ocean Retracking Quality Check		

#### 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. 62

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: 0

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180126T125152_20180126T134127_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
CS_OFFL_SIR_GOP_220180125T233803_20180126T002738_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T011717_20180126T020652_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T020652_20180126T025630_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T025630_20180126T034605_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T034605_20180126T043544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220180126T043544_20180126T052519_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T052519_20180126T061457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T061457_20180126T070433_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T070433_20180126T075411_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T075411_20180126T084346_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T084346_20180126T093325_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T093325_20180126T102300_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T102300_20180126T111238_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T111238_20180126T120213_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T120213_20180126T125152_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T125152_20180126T134127_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T134127_20180126T143105_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T143105_20180126T152040_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T152040_20180126T161019_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T161019_20180126T165954_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T165954_20180126T174932_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T174932_20180126T183908_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T183908_20180126T192846_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T192846_20180126T201821_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T201821_20180126T210800_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T210800_20180126T215735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T215735_20180126T224713_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T224713_20180126T233648_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T233648_20180127T002626_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180125T233803_20180126T002738_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_220180126T002738_20180126T011717_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_220180126T011717_20180126T020652_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_220180126T020652_20180126T025630_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T025630_20180126T034605_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_220180126T034605_20180126T043544_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T043544_20180126T052519_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T052519_20180126T061457_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T061457_20180126T070433_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_220180126T070433_20180126T075411_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T075411_20180126T084346_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_220180126T084346_20180126T093325_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_20180126T093325_20180126T102300_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_220180126T102300_20180126T111238_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_220180126T111238_20180126T120213_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_20180126T120213_20180126T125152_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_20180126T125152_20180126T134127_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T134127_20180126T143105_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_20180126T143105_20180126T152040_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180126T152040_20180126T161019_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_20180126T161019_20180126T165954_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_20180126T165954_20180126T174932_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_20180126T174932_20180126T183908_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T183908_20180126T192846_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_220180126T192846_20180126T201821_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T201821_20180126T210800_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_20180126T210800_20180126T215735_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T215735_20180126T224713_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T224713_20180126T233648_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_220180126T233648_20180127T002626_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

# 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_20180125T233803_20180126T002738_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T002738_20180126T011717_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T020652_20180126T025630_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T025630_20180126T034605_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T034605_20180126T043544_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T043544_20180126T052519_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T052519_20180126T061457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T061457_20180126T070433_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T070433_20180126T075411_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T084346_20180126T093325_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T093325_20180126T102300_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T102300_20180126T111238_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T111238_20180126T120213_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T120213_20180126T125152_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T125152_20180126T134127_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T134127_20180126T143105_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T143105_20180126T152040_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T152040_20180126T161019_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T161019_20180126T165954_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T165954_20180126T174932_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T174932_20180126T183908_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T183908_20180126T192846_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220180126T192846_20180126T201821_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180126T201821_20180126T210800_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T210800_20180126T215735_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T215735_20180126T224713_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T224713_20180126T233648_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180126T233648_20180127T002626_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.