

**Report Production:** 

Processor Used:

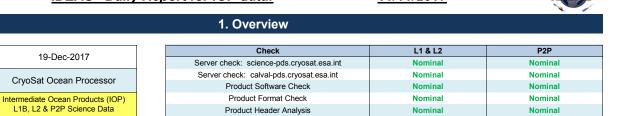
Data Used:

# **IDEAS+ Daily Report for IOP data:**

19-Dec-2017

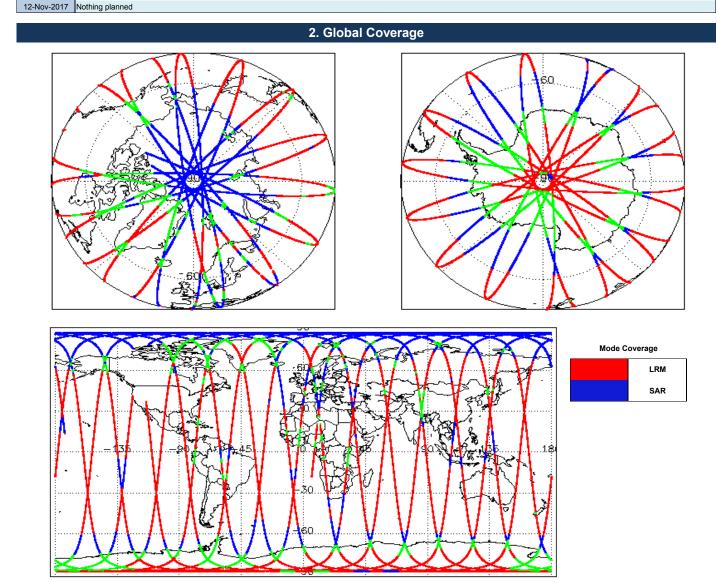
CryoSat Ocean Processor

# <u>11/11/2017</u>



Nominal Nominal Nominal Nominal Nominal Nominal See Section 4.5, 4.6 and 5.5 See Section 6.5 See Section 6.6, 6.7 See Section 5.6, 5.7 See Section 5.8 See Section 6.8

#### Mission / Instrument News 10-Nov-2017 None 11-Nov-2017 None



Auxiliary Data File Usage Check

Auxiliary Correction Error Check

Measurement Confidence Data Check

Range, SWH & Backscatter Measurement Check

Ocean Retracking Quality Check

# 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. IOP 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:

### 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.

0

0

72

Number of products with errors:

# 4.5 L1B Measurement Confidence Data Check

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

Product CS_OFFL_SIR_IOPM1B_20171111T012320_20171111T015230_C001	Test Failed Power scaling error	Description There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171111100025_201711111000311_C001	Attitude correction missing	records The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T001324_20171111T002208_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T002847_20171111T003213_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T003216_20171111T003226_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T003440_20171111T003602_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T004919_20171111T005106_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T015442_20171111T015607_C001	Attitude correction missing	The attitude has not been corrected
		The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T015617_20171111T020105_C001	Attitude correction missing Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20171111T020105_20171111T020229_C001 CS_OFFL_SIR_IOPR1B_20171111T020255_20171111T020402_C001	5	The attitude has not been corrected The attitude has not been corrected
	Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20171111T033427_20171111T033947_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T040327_20171111T040435_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T040438_20171111T040508_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T040511_20171111T040527_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T040532_20171111T040539_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T043606_20171111T043647_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T050827_20171111T050850_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T051431_20171111T051527_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T051626_20171111T051714_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T051714_20171111T052031_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T052242_20171111T052355_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T063949_20171111T064018_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T065205_20171111T065242_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T075353_20171111T075619_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T083230_20171111T083427_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T083443_20171111T084011_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T090322_20171111T090858_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T091810_20171111T092224_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T093336_20171111T093532_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T095442_20171111T095507_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T100048_20171111T100147_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T100257_20171111T100445_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T100802_20171111T100850_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T100932_20171111T101002_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T101352_20171111T102145_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T102247_20171111T102327_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T105813_20171111T110212_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T111949_20171111T112147_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T113958_20171111T114029_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T114046_20171111T114305_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T115210_20171111T120134_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T120137_20171111T120224_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T120228_20171111T120333_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T124526_20171111T124533_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T125106_20171111T125504_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T132819_20171111T132837_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T133320_20171111T134108_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T141623_20171111T141734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T142424_20171111T142430_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T142437_20171111T142444_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T142912_20171111T143525_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T151814_20171111T151835_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T151843_20171111T151929_C001	Attitude correction missing	The attitude has not been corrected
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CS_OFFL_SIR_IOPR1B_20171111T153847_20171111T154051_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T160335_20171111T160341_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T162709_20171111T162921_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T164825_20171111T164917_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T165130_20171111T165821_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T171859_20171111T172050_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T173431_20171111T173537_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T174232_20171111T174240_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T182344_20171111T182507_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T200804_20171111T201807_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T205235_20171111T205320_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T211911_20171111T212448_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T215348_20171111T215510_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T220537_20171111T220552_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T223111_20171111T223445_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T233125_20171111T233249_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T233313_20171111T233321_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171111T233346_20171111T233429_C001	Attitude correction missing	The attitude has not been corrected

### 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.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171111T012320_20171111T015230_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171111T101114_20171111T101219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171111T154051_20171111T155601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171111T162921_20171111T164527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171111T065943_20171111T070431_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171111T114644_20171111T114810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171111T132918_20171111T133320_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171111T151122_20171111T151216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171111T164530_20171111T164825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171111T164917_20171111T165130_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T001324_20171111T002208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T003440_20171111T003602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T015442_20171111T015607_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T083443_20171111T084011_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T091810_20171111T092224_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T111151_20171111T111721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T133320_20171111T134108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171111T191312_20171111T191547_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP 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). 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:	1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171111T012320_20171111T015230_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.

ean 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

Number of products with errors:

Product Test Faile CS\_OFFL\_SIR\_IOPM\_2\_20171110T233905\_20171111T000024\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T000311\_20171111T001324\_C001 CS OFFL SIR IOPM 2 20171111T002422 20171111T002846 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T004434\_20171111T004918\_C001 CS OFFL SIR IOPM 2 20171111T005106 20171111T010116 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T010747\_20171111T011113\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T011822\_20171111T012310\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T012320\_20171111T015230\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T020736\_20171111T021436\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T021500\_20171111T023852\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T025307\_20171111T025455\_C001 CS OFFL SIR IOPM 2 20171111T025748 20171111T031333 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T031335\_20171111T031442\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T031858\_20171111T032619\_C001

CS\_OFFL\_SIR\_IOPM\_2\_20171111T040945\_20171111T042118\_C001 CS OFFL SIR IOPM 2 20171111T042711 20171111T042934 C001 CS OFFL SIR IOPM 2 20171111T043005 20171111T043427 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T043647\_20171111T045110\_C001 CS OFFL SIR IOPM 2 20171111T045250 20171111T050711 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T052944\_20171111T053654\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T053816\_20171111T054304\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T054545\_20171111T060126\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T060457\_20171111T061338\_C001 CS OFFL SIR IOPM 2 20171111T061639 20171111T063827 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T070654\_20171111T074013\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T074415\_20171111T074601\_C001 CS OFFL SIR IOPM 2 20171111T074702 20171111T075132 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T075619\_20171111T082224\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T085041\_20171111T090321\_C001 CS OFFL SIR IOPM 2 20171111T090858 20171111T091809 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T092618\_20171111T093209\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T093532\_20171111T095442\_C001 CS OFFL SIR IOPM 2 20171111T095507 20171111T100048 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T102440\_20171111T105812\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T110525\_20171111T111040\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T111721\_20171111T111949\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T114810\_20171111T115210\_C001 CS OFFL SIR IOPM 2 20171111T120333 20171111T121330 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T121616\_20171111T123732\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T124406\_20171111T124525\_C001 CS OFFL SIR IOPM 2 20171111T124533 20171111T124940 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T125504\_20171111T130447\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T130634\_20171111T131348\_C001

CS OFFL SIR IOPM 2 20171111T034222 20171111T034639 C001

CS\_OFFL\_SIR\_IOPM\_2\_20171111T034749\_20171111T040326\_C001

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 Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice 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 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 Ice Range Averaging Status Ocean 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 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 records The Ocean 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 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 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 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 ecords 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 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 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 ecords 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

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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_IOPM_2_20171110T233905_20171111T000024_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T000311_20171111T001324_C001	0.0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T004434_20171111T004918_C001	00	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T005106_20171111T010116_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20171111T012320\_20171111T015230\_C001 CS OFFL SIR IOPM 2 20171111T020736 20171111T021436 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T021500\_20171111T023852\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T025748\_20171111T031333\_C001 CS OFFL SIR IOPM 2 20171111T031335 20171111T031442 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T031858\_20171111T032619\_C001 CS OFFL SIR IOPM 2 20171111T034222 20171111T034639 C001 CS OFFL SIR IOPM 2 20171111T034749 20171111T040326 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T040945\_20171111T042118\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T042711\_20171111T042934\_C001 CS OFFL SIR IOPM 2 20171111T043647 20171111T045110 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T045250\_20171111T050711\_C001 CS OFFL SIR IOPM 2 20171111T053816 20171111T054304 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T054545\_20171111T060126\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T060457\_20171111T061338\_C001 CS OFFL SIR IOPM 2 20171111T061639 20171111T063827 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T070654\_20171111T074013\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T074415\_20171111T074601\_C001 CS OFFL SIR IOPM 2 20171111T074702 20171111T075132 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T075619\_20171111T082224\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T085041\_20171111T090321\_C001 CS OFFL SIR IOPM 2 20171111T090858 20171111T091809 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T092618\_20171111T093209\_C001 CS OFFL SIR IOPM 2 20171111T093532 20171111T095442 C001 CS OFFL SIR IOPM 2 20171111T095507 20171111T100048 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T102440\_20171111T105812\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T110525\_20171111T11040\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T111721\_20171111T111949\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T114810\_20171111T115210\_C001 CS OFFL SIR IOPM 2 20171111T120333 20171111T121330 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T121616\_20171111T123732\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T124406\_20171111T124525\_C001 CS OFFL SIR IOPM 2 20171111T124533 20171111T124940 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T125504\_20171111T130447\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T130634\_20171111T131348\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T131431\_20171111T131909\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T134117\_20171111T141623\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T141906\_20171111T142424\_C001 CS OFFL SIR IOPM 2 20171111T143525 20171111T150535 C001 CS OFFL SIR IOPM 2 20171111T150715 20171111T151121 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T152625\_20171111T153847\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T154051\_20171111T155601\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T155820\_20171111T160321\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T161241\_20171111T162301\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T162921\_20171111T164527\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T171628\_20171111T171859\_C001 CS OFFL SIR IOPM 2 20171111T172050 20171111T173430 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T173733\_20171111T174232\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T175015\_20171111T182344\_C001 CS OFFL SIR IOPM 2 20171111T185049 20171111T191312 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171111T191818\_20171111T192149\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

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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.

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

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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.

CS_OFFL_SIR_IOPM_2_20171111T192211_20171111T192539_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T192907_20171111T195441_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_IOPM_2_20171111T201930_20171111T205235_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_IOPM_2_20171111T205601_20171111T210102_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T210110_20171111T210437_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T210928_20171111T211911_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_IOPM_2_20171111T212448_20171111T214220_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_IOPM_2_20171111T215510_20171111T215709_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_IOPM_2_20171111T222749_20171111T223110_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_IOPM_2_20171111T223559_20171111T224134_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171111T224901_20171111T232128_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_IOPM_2_20171111T235407_20171112T000940_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_IOPN_2_20171111T120224_20171111T120227_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_IOPN_2_20171111T132730_20171111T132819_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_IOPN_2_20171111T164917_20171111T165130_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_IOPN_2_20171111T192539_20171111T192723_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_IOPN_2_20171111T210437_20171111T210612_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_IOPR_2_20171111T001324_20171111T002208_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_IOPR_2_20171111T020255_20171111T020401_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_IOPR_2_20171111T051714_20171111T052031_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_IOPR_2_20171111T061544_20171111T061639_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_IOPR_2_20171111T101314_20171111T101325_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_IOPR_2_20171111T160743_20171111T161241_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:
68

## 6. IOP 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: 0

# 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_IOP_220171111T011040_20171111T020020_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.

Test Failed	Description
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
	Ocean Range Averaging Status           Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status           Ocean Range Averaging Status, Ice 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

# 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171110T233127_20171111T002106_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_IOP_2_20171111T002106_20171111T011040_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171111T011040_20171111T020020_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_IOP_2_20171111T020020_20171111T024954_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_IOP_220171111T024954_20171111T033933_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171111T033933_20171111T042907_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T042907_20171111T051847_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171111T051847_20171111T060821_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171111T060821_20171111T065800_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171111T065800_20171111T074735_C003	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_IOP_220171111T074735_20171111T083714_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T083714_20171111T092648_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_IOP_220171111T092648_20171111T101628_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T101628_20171111T110602_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_IOP_220171111T110602_20171111T115541_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T115541_20171111T124515_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T124515_20171111T133455_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T133455_20171111T142429_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_IOP_220171111T142429_20171111T151408_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T151408_20171111T160342_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T160342_20171111T165322_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T165322_20171111T174256_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T174256_20171111T183235_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T183235_20171111T192210_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T192210_20171111T201149_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171111T201149_20171111T210123_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171111T210123_20171111T215103_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_IOP_220171111T215103_20171111T224037_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. 29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171110T233127_20171111T002106_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T002106_20171111T011040_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T011040_20171111T020020_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T020020_20171111T024954_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T024954_20171111T033933_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T033933_20171111T042907_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T042907_20171111T051847_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T051847_20171111T060821_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T060821_20171111T065800_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T074735_20171111T083714_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T083714_20171111T092648_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T092648_20171111T101628_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T101628_20171111T110602_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T110602_20171111T115541_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T115541_20171111T124515_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T124515_20171111T133455_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T133455_20171111T142429_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T142429_20171111T151408_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T151408_20171111T160342_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T160342_20171111T165322_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171111T165322_20171111T174256_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	Ocean Retracking Quality Flag