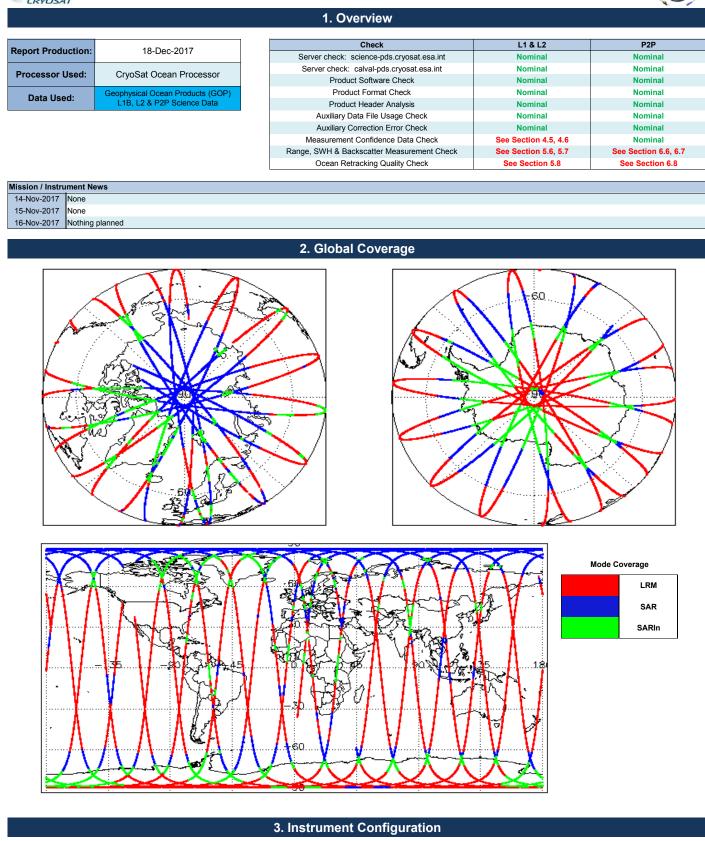


# IDEAS+ Daily Report for GOP data:

# <u>15/11/2017</u>





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

SIRAL - A

0

SIRAL instrument(s) in use:

4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

Number of products with errors:

# 4.2 L1B Product Header Analysis

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

# 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

# 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

62

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	Test Failed	
CS_OFFL_SIR_GOPR1B_20171115T001715_20171115T001856_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T003039_20171115T003121_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T004425_20171115T004613_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T005625_20171115T010021_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T020057_20171115T020133_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T020933_20171115T020947_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T023358_20171115T024058_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T032926_20171115T033451_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T044618_20171115T044757_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T050319_20171115T050336_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T050341_20171115T050344_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T051210_20171115T051541_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T052755_20171115T052812_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T055627_20171115T055820_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T061051_20171115T061144_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T063317_20171115T063348_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T064705_20171115T064734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T073517_20171115T073756_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T074902_20171115T075122_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T082537_20171115T082712_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T091316_20171115T091732_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T100724_20171115T100801_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T100859_20171115T101649_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T105325_20171115T105717_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T111545_20171115T111656_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T113605_20171115T113802_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T114023_20171115T114202_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T114710_20171115T115828_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T120837_20171115T121123_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T123237_20171115T123446_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T124031_20171115T124038_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T124609_20171115T124958_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T125954_20171115T130142_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T132144_20171115T132150_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T132827_20171115T133547_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T141135_20171115T141241_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T150723_20171115T151302_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T151351_20171115T151352_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T155106_20171115T155146_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T155827_20171115T155834_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T155841_20171115T155847_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T160251_20171115T160625_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T160653_20171115T160737_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T161547_20171115T161607_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T172939_20171115T173035_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T173739_20171115T173745_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T174356_20171115T174515_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T190823_20171115T191051_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T192227_20171115T192423_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T200247_20171115T201320_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T204742_20171115T204940_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T210120_20171115T210447_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T211420_20171115T211956_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T214853_20171115T215004_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_GOPR1B_20171115T215225_20171115T215343_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T215742_20171115T215939_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T220045_20171115T220223_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T222542_20171115T222950_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T223958_20171115T224400_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T231719_20171115T232632_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T232849_20171115T232940_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171115T233741_20171115T234004_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.

14

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20171115T101951_20171115T105325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171115T192423_20171115T195202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171115T020154_20171115T020240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171115T051854_20171115T052123_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171115T065453_20171115T065939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171115T132418_20171115T132827_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171115T164424_20171115T164636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T001004_20171115T001715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T023358_20171115T024058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T051210_20171115T051541_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T055627_20171115T055820_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T092840_20171115T093039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T160251_20171115T160625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171115T231719_20171115T232632_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. GOP Level 2 Data Quality Check

# 5.1 L2 Product Format Check

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

#### 5.2 L2 Product Header Analysis

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

# 5.3 L2 Auxiliary Data File Usage Check

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

### 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. 79

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171114T235818_20171115T000841_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T001913_20171115T002354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T003941_20171115T004425_C001	IUcean Rande Averadind Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T004613_20171115T005625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T010321_20171115T010620_C001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T011332_20171115T014804_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_GOPM\_2\_20171115T020133\_20171115T020154\_C001 CS OFFL SIR GOPM 2 20171115T020240 20171115T020933 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T020947\_20171115T023358\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T024332\_20171115T024526\_C001 CS OFFL SIR GOPM 2 20171115T024755 20171115T025012 C001 CS OFFL SIR GOPM 2 20171115T025251 20171115T030841 C001 CS OFFL SIR GOPM 2 20171115T030856 20171115T032114 C001 CS OFFL SIR GOPM 2 20171115T033728 20171115T034132 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T034251\_20171115T035833\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T040452\_20171115T041633\_C001 CS OFFL SIR GOPM 2 20171115T042508 20171115T042933 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T043157\_20171115T044618\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T044757\_20171115T045415\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T052812\_20171115T053200\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T053323\_20171115T055627\_C001 CS OFFL SIR GOPM 2 20171115T055957 20171115T060846 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T061144\_20171115T063317\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T071033\_20171115T073517\_C001 CS OFFL SIR GOPM 2 20171115T074210 20171115T074636 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T075122\_20171115T082320\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T084354\_20171115T085828\_C001 CS OFFL SIR GOPM 2 20171115T090403 20171115T091316 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T092125\_20171115T092714\_C001 CS OFFL SIR GOPM 2 20171115T100624 20171115T100724 C001 CS OFFL SIR GOPM 2 20171115T101951 20171115T105325 C001 CS OFFL SIR GOPM 2 20171115T110031 20171115T110546 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T111229\_20171115T111545\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T111656\_20171115T112234\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T114306\_20171115T114710\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T115828\_20171115T120837\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T121123\_20171115T123237\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T123906\_20171115T124031\_C001 CS OFFL SIR GOPM 2 20171115T124038 20171115T124447 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T124958\_20171115T125954\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T130142\_20171115T130900\_C001 CS OFFL SIR GOPM 2 20171115T130954 20171115T131417 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T133720\_20171115T141135\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T141404\_20171115T141930\_C001 CS OFFL SIR GOPM 2 20171115T143032 20171115T144302 C001 CS OFFL SIR GOPM 2 20171115T144322 20171115T150049 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T150425\_20171115T150629\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T152214\_20171115T153355\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T153559\_20171115T155106\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T155328\_20171115T155827\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T155906\_20171115T160028\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T160737\_20171115T161547\_C001 CS OFFL SIR GOPM 2 20171115T162428 20171115T164045 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T171523\_20171115T172939\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T173247\_20171115T173739\_C001 CS OFFL SIR GOPM 2 20171115T174515 20171115T181855 C001 CS OFFL SIR GOPM 2 20171115T184546 20171115T190823 C001

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 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 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 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 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 Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status

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CS_OFFL_SIR_GOPM_2_20171115T191324_20171115T191654_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T191701_20171115T191711_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T192423_20171115T195202_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T202520_20171115T204742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T205109_20171115T205608_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T205615_20171115T205943_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T210447_20171115T211420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T211956_20171115T213742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T215004_20171115T215225_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T222257_20171115T222542_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T223107_20171115T223639_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T224400_20171115T231639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T232940_20171115T233057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T234907_20171116T000451_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171115T020044_20171115T020057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171115T082937_20171115T082941_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171115T100555_20171115T100624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171115T001715_20171115T001856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171115T041633_20171115T041639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171115T074902_20171115T075122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171115T141942_20171115T141949_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171115T160251_20171115T160625_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. 78

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171114T235818_20171115T000841_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_20171115T001913_20171115T002354_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_20171115T003941_20171115T004425_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_20171115T004613_20171115T005625_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_20171115T010321_20171115T010620_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T011332_20171115T014804_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_20171115T020133_20171115T020154_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_20171115T020240_20171115T020933_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_20171115T020947_20171115T023358_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_20171115T024755_20171115T025012_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T025251_20171115T030841_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_20171115T030856_20171115T032114_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_20171115T033728_20171115T034132_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T034251_20171115T035833_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_20171115T040452_20171115T041633_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_20171115T042508_20171115T042933_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171115T043157_20171115T044618_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_20171115T044757_20171115T045415_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_20171115T052812_20171115T053200_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_20171115T053323_20171115T055627_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_20171115T055957_20171115T060846_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_GOPM\_2\_20171115T061144\_20171115T063317\_C001 CS OFFL SIR GOPM 2 20171115T071033 20171115T073517 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T074210\_20171115T074636\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T075122\_20171115T082320\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T084354\_20171115T085828\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T090403\_20171115T091316\_C001 CS OFFL SIR GOPM 2 20171115T092125 20171115T092714 C001 CS OFFL SIR GOPM 2 20171115T101951 20171115T105325 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T110031\_20171115T110546\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T111229\_20171115T111545\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T111656\_20171115T112234\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T114306\_20171115T114710\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T115828\_20171115T120837\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T121123\_20171115T123237\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T123906\_20171115T124031\_C001 CS OFFL SIR GOPM 2 20171115T124038 20171115T124447 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T124958\_20171115T125954\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T130142\_20171115T130900\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T130954\_20171115T131417\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T132330\_20171115T132345\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T133720\_20171115T141135\_C001 CS OFFL SIR GOPM 2 20171115T141404 20171115T141930 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T143032\_20171115T144302\_C001 CS OFFL SIR GOPM 2 20171115T144322 20171115T150049 C001 CS OFFL SIR GOPM 2 20171115T150425 20171115T150629 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T152214\_20171115T153355\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T153559\_20171115T155106\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T155328\_20171115T155827\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T155906\_20171115T160028\_C001 CS OFFL SIR GOPM 2 20171115T160737 20171115T161547 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T162428\_20171115T164045\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T171523\_20171115T172939\_C001 CS OFFL SIR GOPM 2 20171115T173247 20171115T173739 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T174515\_20171115T181855\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T184546\_20171115T190823\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T191324\_20171115T191654\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T191701\_20171115T191711\_C001 CS OFFL SIR GOPM 2 20171115T192423 20171115T195202 C001 CS OFFL SIR GOPM 2 20171115T202424 20171115T202518 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T202520\_20171115T204742\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T205109\_20171115T205608\_C001 CS OFFL SIR GOPM 2 20171115T210447 20171115T211420 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T211956\_20171115T213742\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T215004\_20171115T215225\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T222257\_20171115T222542\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T223107\_20171115T223639\_C001 CS OFFL SIR GOPM 2 20171115T224400 20171115T231639 C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T232940\_20171115T233057\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20171115T234907\_20171116T000451\_C001 CS OFFL SIR GOPN 2 20171115T020044 20171115T020057 C001 CS\_OFFL\_SIR\_GOPN\_2\_20171115T082937\_20171115T082941\_C001

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Ice Backscatter Averaging Status

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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.

CS_OFFL_SIR_GOPN_2_20171115T100555_20171115T100624_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_20171115T001715_20171115T001856_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_20171115T041633_20171115T041639_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_20171115T074902_20171115T075122_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_20171115T141942_20171115T141949_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171115T160251_20171115T160625_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

#### 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

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

#### 6.1 P2P Product Format Check

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

#### 6.2 P2P Product Header Analysis

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

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

64

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

#### 6.6 P2P Range Measurement Check

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

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

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

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

#### Number of products with errors:

#### Product Test Failed Description The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_20171114T232634\_20171115T001613\_C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T001613\_20171115T010547\_C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T010547\_20171115T015527\_C001 Range Averaging Status or more records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_20171115T015527\_20171115T024501\_C001 Ocean Range Averaging Status records. The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS\_OFFL\_SIR\_GOP\_2\_20171115T024501\_20171115T033440\_C001 Range Averaging Status or more records The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS\_OFFL\_SIR\_GOP\_2\_\_20171115T033440\_20171115T042414\_C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_20171115T042414\_20171115T051354\_C001 Range Averaging Status or more records Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T051354\_20171115T060328\_C001 Range Averaging Status or more records The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS\_OFFL\_SIR\_GOP\_2\_\_20171115T060328\_20171115T065307\_C001 Range Averaging Status or more records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20171115T065307 20171115T074241 C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T074241\_20171115T083221\_C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T083221\_20171115T092155\_C001 Range Averaging Status or more records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20171115T092155 20171115T101135 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_GOP\_2\_\_20171115T101135\_20171115T110109\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20171115T110109 20171115T115048 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR GOP 2 20171115T115048 20171115T124022 C001 Ocean Range Averaging Status records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T124022\_20171115T133002\_C001 Range Averaging Status or more records The Ocean and Ice Range Averaging Status Flags have been set for one Ocean Range Averaging Status, Ice CS OFFL SIR GOP 2 20171115T133002 20171115T141936 C001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one CS\_OFFL\_SIR\_GOP\_2\_\_20171115T141936\_20171115T150915\_C001

Range Averaging Status

or more records.

	1	
CS_OFFL_SIR_GOP_2_20171115T150915_20171115T155849_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_220171115T155849_20171115T164829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T164829_20171115T173803_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_220171115T173803_20171115T182742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T182742_20171115T191716_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_220171115T191716_20171115T200656_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_220171115T200656_20171115T205630_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_220171115T205630_20171115T214610_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T214610_20171115T223544_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_220171115T223544_20171115T232523_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_220171115T232523_20171116T001457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

# 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171114T232634_20171115T001613_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_220171115T001613_20171115T010547_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_220171115T010547_20171115T015527_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_220171115T015527_20171115T024501_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_220171115T024501_20171115T033440_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_220171115T033440_20171115T042414_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_220171115T042414_20171115T051354_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_220171115T051354_20171115T060328_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_220171115T060328_20171115T065307_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_220171115T065307_20171115T074241_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_220171115T074241_20171115T083221_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_220171115T083221_20171115T092155_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_220171115T092155_20171115T101135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T101135_20171115T110109_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_220171115T110109_20171115T115048_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_220171115T115048_20171115T124022_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_220171115T124022_20171115T133002_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_220171115T133002_20171115T141936_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_220171115T141936_20171115T150915_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_220171115T150915_20171115T155849_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_220171115T155849_20171115T164829_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_220171115T164829_20171115T173803_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_220171115T173803_20171115T182742_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_220171115T182742_20171115T191716_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_20171115T191716_20171115T200656_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_20171115T200656_20171115T205630_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_220171115T205630_20171115T214610_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_20171115T214610_20171115T223544_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_220171115T223544_20171115T232523_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_20171115T232523_20171116T001457_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors: 27		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171115T001613_20171115T010547_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T010547_20171115T015527_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T015527_20171115T024501_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T024501_20171115T033440_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T033440_20171115T042414_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T042414_20171115T051354_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T051354_20171115T060328_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T060328_20171115T065307_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T065307_20171115T074241_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T083221_20171115T092155_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T092155_20171115T101135_C001	Ocean Retracking Quality Flag	The Ocean Ret
CS_OFFL_SIR_GOP_220171115T101135_20171115T110109_C001	Ocean Retracking Quality Flag	The Ocean Ret

CS_OFFL_SIR_GOP_2_20171115T033440_20171115T042414_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T042414_20171115T051354_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T051354_20171115T060328_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T060328_20171115T065307_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T065307_20171115T074241_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T083221_20171115T092155_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T092155_20171115T101135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T101135_20171115T110109_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T110109_20171115T115048_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T115048_20171115T124022_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T124022_20171115T133002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T133002_20171115T141936_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T141936_20171115T150915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T150915_20171115T155849_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T155849_20171115T164829_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T173803_20171115T182742_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T182742_20171115T191716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T191716_20171115T200656_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T200656_20171115T205630_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T205630_20171115T214610_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171115T214610_20171115T223544_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T223544_20171115T232523_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171115T232523_20171116T001457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

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