



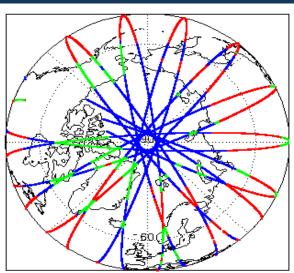
1. Overview

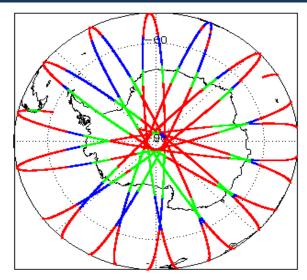
Report Production:	01-Feb-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

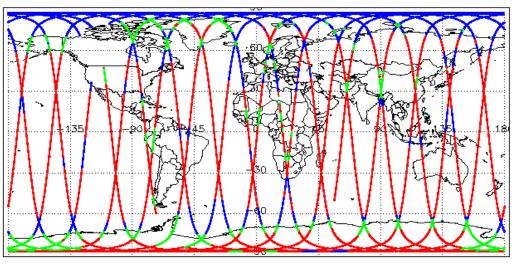
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

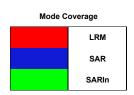
Mission / Instrument News		
29-Dec-2018	None	
30-Dec-2018	None	
31-Dec-2018	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

0

4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

(

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20181230T071526_20181230T073012_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20181230T002707_20181230T005354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181230T085718_20181230T091139_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181230T124424_20181230T131208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181230T193905_20181230T195240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181230T065509_20181230T065701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181230T073055_20181230T073706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181230T083009_20181230T083112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181230T100921_20181230T101419_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181230T164009_20181230T164305_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181230T195903_20181230T200119_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T024515_20181230T024838_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T050121_20181230T050254_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T051711_20181230T052412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T131236_20181230T131341_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T140814_20181230T141154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T144908_20181230T145310_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T163806_20181230T164009_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T165221_20181230T165310_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T191726_20181230T192300_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T213156_20181230T213537_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181230T214535_20181230T214633_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: 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).

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181230T071526_20181230T073012_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

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

Number of products with errors:

75

Product CS_OFFL_SIR_GOPM_2_20181230T002707_20181230T005354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181230T005648_20181230T010135_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T010140_20181230T010510_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T011001_20181230T011954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T012120_20181230T014307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T015541_20181230T015747_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T022802_20181230T022949_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T023639_20181230T024203_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T024838_20181230T031007_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T031253_20181230T032223_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T033430_20181230T033757_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T035410_20181230T041120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T041605_20181230T042101_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T042734_20181230T050015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T052413_20181230T054840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T055813_20181230T060006_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T060711_20181230T062256_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T062908_20181230T063709_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T065720_20181230T071312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T071526_20181230T073012_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T073706_20181230T073918_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T074001_20181230T074419_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T074617_20181230T080056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T080235_20181230T081715_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T084030_20181230T085020_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T085718_20181230T091139_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T091458_20181230T092321_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T092556_20181230T094823_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T102427_20181230T105037_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T105359_20181230T105555_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T105643_20181230T110137_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T110507_20181230T112929_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T120312_20181230T121307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T121845_20181230T122835_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T123604_20181230T124202_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T124424_20181230T131208_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T131955_20181230T132201_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T133455_20181230T140813_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T141512_20181230T142033_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T142708_20181230T142829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T145828_20181230T150118_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T150123_20181230T150215_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T151424_20181230T152316_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T152601_20181230T154751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T155520_20181230T155927_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20181230T160414_20181230T161431_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T161619_20181230T162219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T165310_20181230T172630_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T172913_20181230T173412_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T173433_20181230T173746_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T174511_20181230T181622_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T183534_20181230T184356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T184823_20181230T184928_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T184932_20181230T190606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T190801_20181230T191310_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T191347_20181230T191518_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T192300_20181230T193652_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T193905_20181230T195240_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T201839_20181230T202856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T203036_20181230T204444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T204721_20181230T205221_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T210057_20181230T210236_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T210431_20181230T211514_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T211706_20181230T212243_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T220135_20181230T222401_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T222758_20181230T223138_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T223159_20181230T223500_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T223819_20181230T230639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T233900_20181231T000313_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181230T083425_20181230T083631_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181230T164009_20181230T164305_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181230T124332_20181230T124424_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181230T155515_20181230T155520_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181230T172630_20181230T172717_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181230T191324_20181230T191329_C001	Ice Range Averaging Status	The Ice 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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181230T002707_20181230T005354_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_20181230T005648_20181230T010135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T010140_20181230T010510_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T011001_20181230T011954_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_20181230T012120_20181230T014307_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T015541_20181230T015747_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_20181230T023639_20181230T024203_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T024838_20181230T031007_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_20181230T031253_20181230T032223_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T033430_20181230T033757_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_20181230T035410_20181230T041120_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T041605_20181230T042101_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T042734_20181230T050015_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.

Comparison	CS_OFFL_SIR_GOPM_2_20181230T052413_20181230T054840_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Co. (1) For Expert (2) Personal Control (2) Persona		Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
Detailed for Angeley State Detailed for A		~ ~	
Beasoning State Company Compan		Backscatter Averaging Status	more records.
De Corte, Jim, Gorma, 2, para postronose, 2, p	CS_OFFL_SIR_GOPM_2_20181230T062908_20181230T063709_C001	Backscatter Averaging Status	more records.
Section According States Page 2 Section According States P	CS_OFFL_SIR_GOPM_2_20181230T065720_20181230T071312_C001	Backscatter Averaging Status	more records.
CORFE, BIR COMP 2 20181220170197 (COPT) CORFE, BIR COMP 2 2018120170197	CS_OFFL_SIR_GOPM_2_20181230T071526_20181230T073012_C001		
COUNT LENGTH COUNTY 2018/2019/2019/2019/2019/2019/2019/2019/2019	CS_OFFL_SIR_GOPM_2_20181230T073706_20181230T073918_C001	Ice Backscatter Averaging Status	
EQOFF., BIRL, OCHA J. 2019123TTGGGG, 201923TTGGGG, COOL CO.OFF., BIRL, OCHA J. 2019123TTGGGG,	CS_OFFL_SIR_GOPM_2_20181230T074001_20181230T074419_C001	Ice Backscatter Averaging Status	
See OFF., SE, COMP. 2. 2018/2017/1809. 2018/20	CS_OFFL_SIR_GOPM_2_20181230T074617_20181230T080056_C001		0 0
Co. CHE, URL, COME 2, 201912201012071 201912071201010 COST College Col	CS_OFFL_SIR_GOPM_2_20181230T080235_20181230T081715_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Sign Company 2 point southernorms 2 point 150 points 15	CS_OFFL_SIR_GOPM_2_20181230T084030_20181230T085020_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Co. DEFL. SIR. GOM. 2. 201912301103829. 20191230110392. 20191230110392. 2019123011	CS OFFL SIR GOPM 2 20181230T085718 20181230T091139 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CB_GPFL_BIL_CORPL_20191207110352_20191207110357_0019 CB_GPFL_BIL_CORPL_2019120710352_2019120710357_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207110359_0019120710357_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207110359_0019120710307_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207110359_0019120710307_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207110307_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207110307_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207110307_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207112030_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207112030_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207112030_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207112030_0019 CB_GPFL_BIL_CORPL_20191207110352_20191207112030_0019 CB_GPFL_BIL_CORPL_20191207110352_00191207110300_0019 CB_GPFL_BIL_CORPL_20191207110352_00191207110300_0019 CB_GPFL_BIL_CORPL_20191207110352_00191207110300_0019 CB_GPFL_BIL_CORPL_20191207110352_00191207110300_0019 CB_GPFL_BIL_CORPL_20191207110352_00191207110300_0019 CB_GPFL_BIL_CORPL_20191207110300_00191207110300_0019 CB_GPFL_BIL_CORPL_20191207110300_00191207110300_00191 CB_GPFL_BIL_CORPL_20191207110300_00191207110300_00191 CB_GPFL_BIL_CORPL_20191207110300_00191207110300_00191 CB_GPFL_BIL_CORPL_20191207110300_001910707103001_001912071103000_001910707103000_001910707103000_001910707103001_001910707103000_001910707103000_001910707103000_001910707103001_001910707103000_00191070710300			The Ice Backscatter Averaging Status Flag has been set for one or more
CB_OFFL_BR_GORPL_2.0181201710027_20181201710555_00101 CB_OFFL_BR_GORPL_2.0181201710552_01011007_0011 CB_OFFL_BR_GORPL_2.0181201710567_2018120171057_0011 CB_OFFL_BR_GORPL_2.0181201710567_2018120171057_0011 CB_OFFL_BR_GORPL_2.0181201710567_2018120171057_0011 CB_OFFL_BR_GORPL_2.0181201710567_2018120171057_0011 CB_OFFL_BR_GORPL_2.0181201710567_201812017105001 CB_OFFL_BR_GORPL_2.0181201710567_201812017105001 CB_OFFL_BR_GORPL_2.0181201710567_201812017105001 CB_OFFL_BR_GORPL_2.0181201710568_201812017105001 CB_OFFL_BR_GORPL_2.0181201710568_201812017105001 CB_OFFL_BR_GORPL_2.0181201710568_201812017105001 CB_OFFL_BR_GORPL_2.0181201710368_201812017105001 CB_OFFL_BR_GORPL_2.0181201710368_201812017105001 CB_OFFL_BR_GORPL_2.0181201710368_201812017105001 CB_OFFL_BR_GORPL_2.0181201710368_201812017105001 CB_OFFL_BR_GORPL_2.0181201710368_201812017105001 CB_OFFL_BR_GORPL_2.0181201710368_201812017105010 CB_OFFL_BR_GORPL_2.0181201710368_201812017105010 CB_OFFL_BR_GORPL_2.0181201710369_201812017105010 CB_OFFL_BR_GORPL_2.01812017105001_2.01812017105010 CB_OFFL_BR_GORPL_2.01812017105001_2.01812017105010 CB_OFFL_BR_GORPL_2.01812017105001_2.01812017105001 CB_OFFL_BR_GORPL_2.01812017105001_2.01812017105001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_001100010002_00110001 CB_OFFL_BR_GORPL_2.01812017105002_001100010002_001100010002_00110001000		SWH Averaging Status, Ocean	
Section Processing Golden 2 2019/2007109559 2019/200710957 2019/200710957 2019/2007109			
So, OFFL_SR_COPM_2_0181220711020_01010000000000000000000000000		9 9	
S. OFFL, SIR, GOPM 2, 201812007112012, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007120132, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007120132, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007120132, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007120130, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007120305, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007120305, 201812007120130, 2001 SO, OFFL, SIR, GOPM 2, 201812007130305, 201812007140013, 2001 SO, OFFL, SIR, GOPM 2, 201812007130305, 201812007140013, 2001 SO, OFFL, SIR, GOPM 2, 201812007140012, 201812007140013, 2001 SO, OFFL, SIR, GOPM 2, 201812007140012, 201812007140013, 2001 SO, OFFL, SIR, GOPM 2, 201812007140012, 201812007140015, 2001 SO, OFFL, SIR, GOPM 2, 201812007160102, 201812007160015, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160010, 201812007160100, 20181200	CS_OFFL_SIR_GOPM_2_20181230T105359_20181230T105555_C001	Ice Backscatter Averaging Status	records.
Subsection / Newgrigo Status	CS_OFFL_SIR_GOPM_2_20181230T105643_20181230T110137_C001		records.
Backscatter Averaging Status Deam Increased. S. GFFL_SIR_GOPM_2_201612201124394_20161220112402, C001 S. GFFL_SIR_GOPM_2_201612201124042_01612201131280, C001 S. GFFL_SIR_GOPM_2_20161220113405_201612201131280, C001 S. GFFL_SIR_GOPM_2_20161220113405_20161220113400, C001 S. GFFL_SIR_GOPM_2_20161220113400, C00161200113400, C00161200113400, C00161200113400	CS_OFFL_SIR_GOPM_2_20181230T110507_20181230T112929_C001	Backscatter Averaging Status	more records.
So, OFFL_SR_COPM_2_20161220713420_C001 So OFFL_SR_COPM_2_20161220713424_2016122071320_C001 So OFFL_SR_COPM_2_20161220713435_2016122071420_C001 So OFFL_SR_COPM_2_20161220713435_2016122071420_C001 So OFFL_SR_COPM_2_2016122071444_2016122071420_C001 So OFFL_SR_COPM_2_2016122071444_20161220715016_C001 So OFFL_SR_COPM_2_2016122071444_20161220715016_C001 So OFFL_SR_COPM_2_20161220714505_20161220715016_C001 So OFFL_SR_COPM_2_20161220714505_20161220715016_C001 So OFFL_SR_COPM_2_20161220714503_C001 So OFFL_SR_COPM_2_20161220716016_C001 SO OFFL_SR_COPM_2_20161220716000_C001 SO OFFL_SR_COPM_2_20161220716000_C001 SO OFFL_SR_COPM_2_201612207116000_C001 SO OFFL_SR_COPM_2_201612207116000_C001 SO OFFL_SR_COPM_2_201612207116000_C001 SO OFFL_SR_COPM_2_201612207116000_C001 SO OFFL_SR_COPM_2_201612207116000_C001 SO OFFL_SR_COPM_2_201612207116000_C0016120071016000_C001 SO OFFL_SR_COPM_2_201612207116000_C0016120071016000_C001 SO OFFL_SR_COPM_2	CS_OFFL_SIR_GOPM_2_20181230T120312_20181230T121307_C001	Backscatter Averaging Status	more records.
SO, SPEL_SIR_GOPM_2 201812307131952_0181230713201. SO, SPEL_SIR_GOPM_2 201812307131952_0181230713201. SO, SPEL_SIR_GOPM_2 201812307131952_0181230714018_001 SO, SPEL_SIR_GOPM_2 20181230714012_0781220712201. SO, SPEL_SIR_GOPM_2 20181230715012_0781220712018_001 SO, SPEL_SIR_GOPM_2 20181230715012_0781220715012_0. SO, SPEL_SIR_GOPM_2 20181230715012_0781220715012_0. SO, SPEL_SIR_GOPM_2 20181230715012_0781220715012_0. SO, SPEL_SIR_GOPM_2 201812307150280_00181230715012_0. SO, SPEL_SIR_GOPM_2 20181230715020_0781220715012_0. SO, SPEL_SIR_GOPM_2 20181230716010_0781220715012_0. SO, SPEL_SIR_GOPM_2 2018123071601000_07812207150120_0. SO, SPEL_SIR_GOPM_2 2018123071010000_07812207100000_0781220710000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20181230T121845_20181230T122835_C001		* * *
Backscaller Averaging Status Import records. SOFE_SIR_GOPM_2_20181207113456_20181220714203_001 SOFE_SIR_GOPM_2_20181207114512_20181220714203_001 SOFE_SIR_GOPM_2_20181207141512_20181220714203_001 SOFE_SIR_GOPM_2_2018120716122_0181220714203_001 SOFE_SIR_GOPM_2_2018120716122_0181220714203_001 SOFE_SIR_GOPM_2_2018120716122_01812207150215_001 SOFE_SIR_GOPM_2_2018120716122_01812207150215_001 SOFE_SIR_GOPM_2_2018120716102_018120715020_001 SOFE_SIR_GOPM_2_2018120716102_0181207160413_001 SOFE_SIR_GOPM_2_20181207160414_20181220716043_001 SOFE_SIR_GOPM_2_20181207160414_20181220716043_001 SOFE_SIR_GOPM_2_20181207160414_20181220716043_001 SOFE_SIR_GOPM_2_20181207160414_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176041_20181220716043_001 SOFE_SIR_GOPM_2_20181207176043_00181207176043_001 SOFE_SIR_GOPM_2_20181207176043_00181207176043_00181207176043_00181207176043_00181207176043_00181207176043_00181207176043_001	CS_OFFL_SIR_GOPM_2_20181230T123604_20181230T124202_C001	Ice Backscatter Averaging Status	
SOFFL_SIR_GOPM_2_20181230T13958_20181230T14933_0001 SWH Avvarging Status. Ocean processors. SWH Avvarging Status Flags have been set for one or more records. SOFFL_SIR_GOPM_2_20181230T14913_20181230T14931_0001 SOFFL_SIR_GOPM_2_20181230T14912_00181230T15018_0001 SOFFL_SIR_GOPM_2_20181230T150012_00181230T15018_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15019_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15019_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15019_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T15002_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T150030_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T150030_00181230T15002_0001 SOFFL_SIR_GOPM_2_20181230T170013_00181230T18002_0001 SOFFL_SIR_GOPM_2_20181230T170013_00181230T18002_0001 SOFFL_SIR_GOPM_2_20181230T170013_00181230T18002_0001 SOFFL_SIR_GOPM_2_20181230T170013_00181230T18002_0001 SOFFL_SIR_GOPM_2_20181230T19000_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T19000_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T19000_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T190130_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T19000_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T19000_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T19000_00181230T190130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_0001 SOFFL_SIR_GOPM_2_20181230T100000_00181230T100130_000181200T100000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20181230T124424_20181230T131208_C001		* * *
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	33_5.1 E_011001 III_E_01012001220130_201012301222401_0001	Backscatter Averaging Status	more records.

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CS_OFFL_SIR_GOPM_2_20181230T223159_20181230T223500_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181230T223819_20181230T230639_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_20181230T233900_20181231T000313_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181230T083425_20181230T083631_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181230T164009_20181230T164305_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_20181230T124332_20181230T124424_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_20181230T155515_20181230T155520_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181230T172630_20181230T172717_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_20181230T191324_20181230T191329_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has 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.

umber 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).

umber of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220181230T064915_20181230T073850_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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220181230T001221_20181230T010156_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_220181230T010156_20181230T015135_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T015135_20181230T024110_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_220181230T024110_20181230T033048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T033048_20181230T042023_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_220181230T042023_20181230T051002_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_220181230T051002_20181230T055937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T055937_20181230T064915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T064915_20181230T073850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T073850_20181230T082829_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_220181230T082829_20181230T091804_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_220181230T091804_20181230T100743_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_220181230T100743_20181230T105718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T105718_20181230T114656_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_220181230T114656_20181230T123631_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_220181230T123631_20181230T132610_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_220181230T132610_20181230T141545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T141545_20181230T150523_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_220181230T150523_20181230T155458_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T155458_20181230T164437_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_220181230T164437_20181230T173412_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_220181230T173412_20181230T182350_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_220181230T182350_20181230T191325_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_220181230T191325_20181230T200304_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_220181230T200304_20181230T205239_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_220181230T205239_20181230T214218_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_220181230T214218_20181230T223153_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T223153_20181230T232131_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T232131_20181231T001106_C002	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. 29

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220181230T001221_20181230T010156_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_220181230T010156_20181230T015135_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_220181230T015135_20181230T024110_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_20181230T024110_20181230T033048_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_220181230T033048_20181230T042023_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_220181230T042023_20181230T051002_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_220181230T051002_20181230T055937_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_220181230T055937_20181230T064915_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_220181230T064915_20181230T073850_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_220181230T073850_20181230T082829_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_220181230T082829_20181230T091804_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_220181230T091804_20181230T100743_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_220181230T100743_20181230T105718_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_220181230T105718_20181230T114656_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_220181230T114656_20181230T123631_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_220181230T123631_20181230T132610_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_220181230T132610_20181230T141545_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_220181230T141545_20181230T150523_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_220181230T150523_20181230T155458_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_2_20181230T155458_20181230T164437_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T164437_20181230T173412_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_220181230T173412_20181230T182350_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T182350_20181230T191325_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_20181230T191325_20181230T200304_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_20181230T200304_20181230T205239_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_20181230T205239_20181230T214218_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_20181230T214218_20181230T223153_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_20181230T223153_20181230T232131_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_20181230T232131_20181231T001106_C002	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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181230T001221_20181230T010156_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T015135_20181230T024110_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T024110_20181230T033048_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T033048_20181230T042023_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T042023_20181230T051002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T051002_20181230T055937_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T055937_20181230T064915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T064915_20181230T073850_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T073850_20181230T082829_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T082829_20181230T091804_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T091804_20181230T100743_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T100743_20181230T105718_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T105718_20181230T114656_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T114656_20181230T123631_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T123631_20181230T132610_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T141545_20181230T150523_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T150523_20181230T155458_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T155458_20181230T164437_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T164437_20181230T173412_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T173412_20181230T182350_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T182350_20181230T191325_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T191325_20181230T200304_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T200304_20181230T205239_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181230T205239_20181230T214218_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T214218_20181230T223153_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T223153_20181230T232131_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181230T232131_20181231T001106_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.