



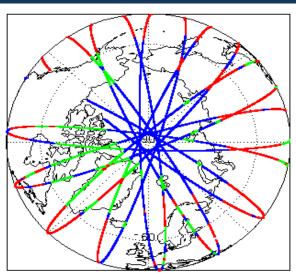
1. Overview

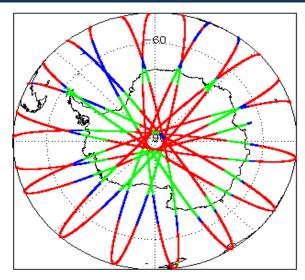
Report Production:	16-May-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

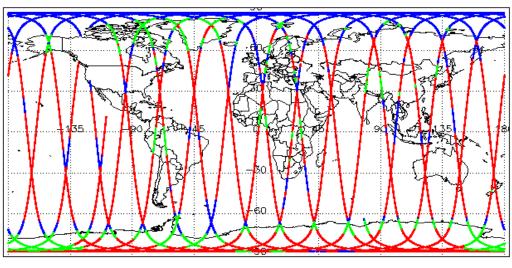
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.6	Nominal
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

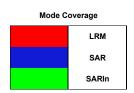
Mission / Instrument News		
16-Apr-2018	None	
17-Apr-2018	None	
18-Apr-2018	Nothing planned	

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:

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

23

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180417T202554_20180417T204114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180417T230413_20180417T233108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T003148_20180417T003433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T021227_20180417T021345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T025046_20180417T025128_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T060909_20180417T061136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T061215_20180417T061336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T074618_20180417T075042_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T075131_20180417T075245_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T085024_20180417T085155_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T092713_20180417T093140_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T102449_20180417T102817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T211413_20180417T211619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T224905_20180417T225406_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180417T234129_20180417T234357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T025404_20180417T030151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T042452_20180417T042539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T043057_20180417T043325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T093451_20180417T093842_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T175039_20180417T175619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T211619_20180417T211721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T211902_20180417T212005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180417T224159_20180417T224309_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: 0

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:

0

5.6 L2 Range Measurement Check

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

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

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

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

Product	Toot Foiled	Description
Product CS_OFFL_SIR_GOPM_2_20180416T235610_20180417T000800_C001	Test Failed Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T000957_20180417T002122_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201804171000937_201804171002122_0001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T002728_20180417T003147_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180417T003519 20180417T010509 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180417T012818 20180417T014340 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201804177014912_20180417T020042_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201804177020641_20180417T021227_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201804171020041_20180417T022009_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T025129_20180417T025217_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T030521_20180417T033938_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180417T034545 20180417T035058 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOF M_2_201804171039343_20180417103935_0001 CS_OFFL_SIR_GOPM_2_201804171035259_20180417T041206_C001		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201804171033259_201804171041206_C001 CS_OFFL_SIR_GOPM_2_20180417T044445_20180417T051237_C001	Ocean Range Averaging Status Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_Z01804171044443_201804171051237_C001 CS_OFFL_SIR_GOPM_2_20180417T051248_20180417T051808_C001		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_Z01804171051248_201804171051808_C001 CS_OFFL_SIR_GOPM_2_20180417T052552_20180417T053005_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T053219_20180417T060742_C001 CS_OFFL_SIR_GOPM_2_20180417T060742_20180417T060828_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T061137_20180417T061215_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T062502_20180417T065734_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T075043_20180417T075131_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T080803_20180417T081914_C001 CS_OFFL_SIR_GOPM_2_20180417T082117_20180417T083641_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T083847_20180417T084342_C001 CS_OFFL_SIR_GOPM_2_20180417T084419_20180417T084538_C001	Ice Range Averaging Status Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T085227_20180417T085715_C001 CS_OFFL_SIR_GOPM_2_20180417T091004_20180417T092132_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T100035_20180417T101539_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T101820_20180417T102255_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T102258_20180417T102311_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T102333_20180417T102449_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T102914_20180417T105608_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T112938_20180417T115505_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T115821_20180417T120209_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T120828_20180417T122027_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T122558_20180417T123551_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T130803_20180417T133459_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T133633_20180417T134123_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T134818_20180417T135942_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T140251_20180417T142255_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T150759_20180417T150935_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T151135_20180417T151423_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T151626_20180417T152152_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T152745_20180417T154955_C001	Ocean Range Averaging Status	records.

CS_OFFL_SIR_GOPM_2_20180417T155240_20180417T160123_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T161434_20180417T161729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T163353_20180417T165330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T165551_20180417T170050_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T170650_20180417T173939_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T180521_20180417T182826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T183802_20180417T183954_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T184656_20180417T190415_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T190856_20180417T191735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T193156_20180417T193448_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T193656_20180417T195256_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T195510_20180417T200954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T201655_20180417T201906_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T201952_20180417T202408_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T202554_20180417T204114_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T204319_20180417T205238_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T212006_20180417T212805_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T212809_20180417T213210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T213710_20180417T215153_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T215448_20180417T220310_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T220531_20180417T222235_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T222329_20180417T222739_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T230413_20180417T233108_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T233346_20180417T233544_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T233631_20180417T234129_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180417T092713_20180417T093140_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180417T101628_20180417T101820_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180417T111507_20180417T111547_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180417T024024_20180417T024205_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180417T024745_20180417T024829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180417T170411_20180417T170650_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180417T184621_20180417T184655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180417T204251_20180417T204318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180417T233108_20180417T233227_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.

Product	Test Failed	Description
	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_20180417T000957_20180417T002122_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_20180417T002442_20180417T002610_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T002728_20180417T003147_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	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_20180417T012818_20180417T014340_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_20180417T014912_20180417T020042_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_20180417T020641_20180417T021227_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T021354_20180417T022009_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_20180417T030521_20180417T033938_C001	Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status Averaging Status, Ocean scatter Averaging Status Averaging Status ackscatter Averaging Status Averaging Status, Ocean scatter Averaging Status Averaging Status, Ocean scatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The 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 Flags have been set for one or more records. The Ice Backscatter Averaging Status Flags have been set for one or more records. The Ice Backscatter Averaging Status Flags has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T030521_20180417T033938_C001	scatter Averaging Status ackscatter Averaging Status Averaging Status, Ocean scatter Averaging Status Averaging Status Averaging Status, Ocean scatter Averaging Status Averaging Status Averaging Status ackscatter Averaging Status ackscatter Averaging Status Averaging Status Averaging Status Averaging Status Averaging Status Averaging Status	more records. The Ice Backscatter 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 Flags have been set for one or more records. The Ice Backscatter Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The 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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CS_OFFL_SIR_GOPM_2_20180417T051248_20180417T051237_C001 Backsc CS_OFFL_SIR_GOPM_2_20180417T051248_20180417T051237_C001 CS_OFFL_SIR_GOPM_2_20180417T051248_20180417T051808_C001 CS_OFFL_SIR_GOPM_2_20180417T052552_20180417T053005_C001 Ice Backsc CS_OFFL_SIR_GOPM_2_20180417T053219_20180417T060742_C001 Backsc CS_OFFL_SIR_GOPM_2_20180417T052552_20180417T060742_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T060742_20180417T060828_C001 Ice Backsc CS_OFFL_SIR_GOPM_2_20180417T061137_20180417T061215_C001 Ice Backsc CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001 Ice Backsc CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001 Ice Backsc CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001 Ice Backsc CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T07074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T071618_C001 SWH A Backsc	scatter Averaging Status Averaging Status, Ocean scatter Averaging Status Averaging Status ackscatter Averaging Status	more records. The SWH and Ocean Averaging Status Flags have been set for one or more records. The Is a Backscatter Averaging Status Flags have been set for one or more records. The Is Backscatter Averaging Status Flags have been set for one or more ecords. 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 Is a Backscatter Averaging Status Flags have been set for one or more records. The Is Backscatter Averaging Status Flag has been set for one or more records. The Is a Backscatter Averaging Status Flags have been set for one or more records. The Is Backscatter Averaging Status Flags has been set for one or more records. The Is Backscatter Averaging Status Flag has been set for one or more records.
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CS_OFFL_SIR_GOPM_2_20180417T051248_20180417T051808_C001 CS_OFFL_SIR_GOPM_2_20180417T052552_20180417T053005_C001 CS_OFFL_SIR_GOPM_2_20180417T053219_20180417T060742_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T060742_20180417T060828_C001 CS_OFFL_SIR_GOPM_2_20180417T061137_20180417T061215_C001 CS_OFFL_SIR_GOPM_2_20180417T062502_20180417T065734_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001 CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001 CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T0707817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc	scatter Averaging Status ackscatter Averaging Status I Averaging Status, Ocean scatter Averaging Status I Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status I Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status ackscatter Averaging Status ackscatter Averaging Status I Averaging Status I Averaging Status I Averaging Status, Ocean I I I I I I I I I I I I I I I I I I I	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 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 Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_GOPM_2_20180417T060742_20180417T060742_C001 Backsc CS_OFFL_SIR_GOPM_2_20180417T060742_20180417T060828_C001 CS_OFFL_SIR_GOPM_2_20180417T061137_20180417T061215_C001 CS_OFFL_SIR_GOPM_2_20180417T062502_20180417T065734_C001 CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001 CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001 CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc	scatter Averaging Status Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status ackscatter Averaging Status ackscatter Averaging Status Averaging Status Averaging Status, Ocean	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 ecords. 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 ecords. The Ice Backscatter Averaging Status Flag has been set for one or more ecords.
CS_OFFL_SIR_GOPM_2_20180417T060742_20180417T060828_C001 CS_OFFL_SIR_GOPM_2_20180417T061137_20180417T061215_C001 CS_OFFL_SIR_GOPM_2_20180417T062502_20180417T065734_C001 CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001 CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T070718_C001 CS_OFFL_SIR_GOPM_2_20180417T070503_20180417T0707817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc	Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status Averaging Status Averaging Status Averaging Status Averaging Status, Ocean	more records. The Ice Backscatter Averaging Status Flag has been set for one or more ecords. 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 ecords. The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T061137_20180417T061215_C001 lce Bac CS_OFFL_SIR_GOPM_2_20180417T062502_20180417T065734_C001	ackscatter Averaging Status Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status ackscatter Averaging Status Averaging Status, Ocean	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 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.
CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001	Averaging Status, Ocean scatter Averaging Status ackscatter Averaging Status ackscatter Averaging Status I Averaging Status, Ocean	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
CS_OFFL_SIR_GOPM_2_20180417T065921_20180417T070444_C001	ackscatter Averaging Status ackscatter Averaging Status Averaging Status, Ocean	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
CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T080803_20180417T081914_C001 SWH A	ackscatter Averaging Status Averaging Status, Ocean	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T071551_20180417T072817_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T080803_20180417T081914_C001 SWH A	Averaging Status, Ocean	
CS_OFFL_SIR_GOPM_2_20180417T072934_20180417T074618_C001 SWH A Backsc CS_OFFL_SIR_GOPM_2_20180417T080803_20180417T081914_C001 SWH A	scatter Averaging Status	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFI SIR GOPM 2 20180417T080803 20180417T081914 C001 SWH A		nore records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201804171080803_201804171081914_C001	0 0	nore records. The SWH and Ocean Averaging Status Flags have been set for one or
SWH A	scatter Averaging Status	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201804171082117_201804171083641_C001 Backsc	scatter Averaging Status	nore records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180417T083847_20180417T084342_C001	ackscatter Averaging Status	records.
	ackscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more ecords.
CS_OFFL_SIR_GOPM_2_201804171085227_201804171085715_C001	scatter Averaging Status	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_GOPM_2_20180417T101820_20180417T102255_C001 Ice Bac		The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T102258_20180417T102311_C001	ackscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T102333_20180417T102449_C001	ackscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFI SIR GOPM 2 20180417T112038 20180417T115505 C001	Averaging Status, Ocean	nore records. The SWH and Ocean Averaging Status Flags have been set for one or
Backsc	ackscatter Averaging Status	nore records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS OFFI SIR GORM 2 20180417T120828 20180417T122027 C001	Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
Backsc		nore records. The SWH and Ocean Averaging Status Flags have been set for one or
SWH A		nore records. The SWH and Ocean Averaging Status Flags have been set for one or
	т .	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
SWH A	ackscatter Averaging Status	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201804171134818_201804171135942_C001 Backsc	scatter Averaging Status	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201804171140251_201804171142255_C001 Backsc	scatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_201804171150759_201804171150935_C001	scatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	scatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T151626_20180417T152152_C001		The Ice Backscatter Averaging Status Flag has been set for one or more records.
		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFI SIR GOPM 2 20180417T155240 20180417T160123 C001	Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFI SIR GOPM 2 20180417T161434 20180417T161729 C001	Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFI SIR GOPM 2 20180417T163353 20180417T165330 C001	Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or nor records.
Backsc	ackscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180417T170650 20180417T173939 C001	Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFI SIR GORM 2 20180417T180521 20180417T182826 C001 SWH A	Averaging Status, Ocean	nore records. The SWH and Ocean Averaging Status Flags have been set for one or
Backsc	7	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
SWH A		records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPW_2_201604171104036_201604171190415_C001 Backsc	scatter Averaging Status	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201804171190856_201804171191735_C001 Backsc	scatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
	ackscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_201804171193030_201804171195250_C001	scatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	scatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T201952_20180417T202408_C001		The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20180417T202554_20180417T204114_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_20180417T204319_20180417T205238_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_20180417T211057_20180417T211135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T212006_20180417T212805_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_20180417T212809_20180417T213210_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_20180417T213710_20180417T215153_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_20180417T215448_20180417T220310_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180417T220531_20180417T222235_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_20180417T222329_20180417T222739_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_20180417T230413_20180417T233108_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_20180417T233631_20180417T234129_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180417T092713_20180417T093140_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_20180417T101628_20180417T101820_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180417T111507_20180417T111547_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_20180417T024024_20180417T024205_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_20180417T024745_20180417T024829_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_20180417T170411_20180417T170650_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_20180417T184621_20180417T184655_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_20180417T204251_20180417T204318_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_20180417T233108_20180417T233227_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors: 0

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180416T233820_20180417T002759_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T002759_20180417T011734_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_20180417T011734_20180417T020713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T020713_20180417T025647_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_220180417T025647_20180417T034627_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.

	Occan Banca Avaraging Status Ica	The Ocean and les Bancs Averaging Status Flore have been set for an
CS_OFFL_SIR_GOP_220180417T034627_20180417T043601_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_20180417T043601_20180417T052540_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T052540_20180417T061514_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_20180417T061514_20180417T070454_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_20180417T070454_20180417T075428_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_20180417T075428_20180417T084407_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_20180417T084407_20180417T093341_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_20180417T093341_20180417T102321_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_20180417T102321_20180417T111255_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_20180417T111255_20180417T120234_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_20180417T120234_20180417T125209_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T125209_20180417T134148_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_20180417T134148_20180417T143122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T143122_20180417T152102_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_20180417T152102_20180417T161036_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T161036_20180417T170015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T170015_20180417T174949_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T174949_20180417T183929_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_20180417T183929_20180417T192903_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T192903_20180417T201842_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_20180417T201842_20180417T210816_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_220180417T210816_20180417T215756_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_220180417T215756_20180417T224730_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_20180417T224730_20180417T233709_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.

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180416T233820_20180417T002759_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T002759_20180417T011734_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_20180417T011734_20180417T020713_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_20180417T020713_20180417T025647_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_20180417T025647_20180417T034627_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_20180417T034627_20180417T043601_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_20180417T043601_20180417T052540_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_20180417T052540_20180417T061514_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_20180417T061514_20180417T070454_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_20180417T070454_20180417T075428_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_20180417T075428_20180417T084407_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_20180417T084407_20180417T093341_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_20180417T093341_20180417T102321_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_20180417T102321_20180417T111255_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_20180417T111255_20180417T120234_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_20180417T120234_20180417T125209_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_20180417T125209_20180417T134148_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_20180417T134148_20180417T143122_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_20180417T143122_20180417T152102_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_20180417T152102_20180417T161036_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_20180417T161036_20180417T170015_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_20180417T170015_20180417T174949_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_20180417T174949_20180417T183929_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_20180417T183929_20180417T192903_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_20180417T192903_20180417T201842_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_20180417T201842_20180417T210816_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_20180417T210816_20180417T215756_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_20180417T215756_20180417T224730_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_20180417T224730_20180417T233709_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors: 26		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180417T002759_20180417T011734_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T011734_20180417T020713_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T020713_20180417T025647_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T025647_20180417T034627_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T043601_20180417T052540_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T052540_20180417T061514_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T061514_20180417T070454_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T070454_20180417T075428_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T075428_20180417T084407_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T084407_20180417T093341_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T102321_20180417T111255_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T111255_20180417T120234_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T120234_20180417T125209_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T125209_20180417T134148_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T134148_20180417T143122_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T143122_20180417T152102_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T152102_20180417T161036_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T161036_20180417T170015_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T170015_20180417T174949_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T174949_20180417T183929_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T183929_20180417T192903_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T192903_20180417T201842_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T201842_20180417T210816_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220180417T210816_20180417T215756_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180417T215756_20180417T224730_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180417T224730_20180417T233709_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.