



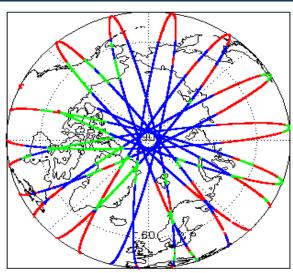
1. Overview

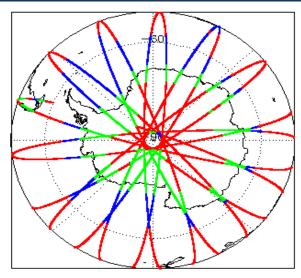
Report Production:	17-Jan-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

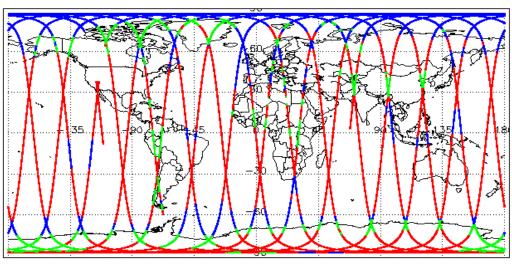
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	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

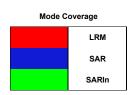
Mission / Instrument News		
17-Dec-2018	None	
18-Dec-2018	None	
19-Dec-2018	Nothing planned	

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:

Ω

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:

22

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20181218T062200_20181218T063906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181218T081815_20181218T082738_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181218T133438_20181218T133641_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181218T190446_20181218T192041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20181218T195345_20181218T200713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T020834_20181218T020858_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T034800_20181218T034853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T061448_20181218T062022_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T084443_20181218T084551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T115849_20181218T115916_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T134611_20181218T135014_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T150500_20181218T150623_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T151310_20181218T151414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20181218T214927_20181218T215439_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T020103_20181218T020834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T085138_20181218T085329_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T092615_20181218T092742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T142242_20181218T142624_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T150401_20181218T150500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T174110_20181218T174243_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T193205_20181218T193825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20181218T214718_20181218T214926_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

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.

Number of products with errors:

76

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20181217T234349_20181218T001036_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T004139_20181218T010841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T011119_20181218T011617_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T011624_20181218T011951_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T012427_20181218T013427_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T014002_20181218T015748_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T021021_20181218T021223_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T024306_20181218T024427_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T024627_20181218T024646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T025117_20181218T025648_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T030328_20181218T033638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T034946_20181218T035104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T040914_20181218T042546_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T043036_20181218T043544_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T044202_20181218T051549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T054023_20181218T054457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T054539_20181218T060318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T061251_20181218T061447_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T062200_20181218T063906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T064347_20181218T065231_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T071052_20181218T072827_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T073005_20181218T074412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T075155_20181218T075357_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T075459_20181218T075859_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T080053_20181218T081613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T081815_20181218T082738_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T085120_20181218T085138_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T085442_20181218T090644_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T091251_20181218T091924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T092223_20181218T092615_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T092957_20181218T093801_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T094040_20181218T095529_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T103236_20181218T110532_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T110837_20181218T111043_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T111115_20181218T111644_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T111954_20181218T114429_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T121609_20181218T122746_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T123323_20181218T124327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T125045_20181218T125531_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T125903_20181218T133024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T133438_20181218T133641_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T135015_20181218T142242_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T142954_20181218T143523_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T143838_20181218T144311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T151414_20181218T151657_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20181218T152918_20181218T160239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T160856_20181218T161409_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T161850_20181218T163548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T170734_20181218T174110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T174436_20181218T174855_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T174914_20181218T175308_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T175755_20181218T183131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T183253_20181218T183540_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T184738_20181218T185834_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T190446_20181218T192041_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T192237_20181218T192754_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T192813_20181218T193009_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T193825_20181218T195131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T195345_20181218T200713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T200805_20181218T201017_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T203310_20181218T204335_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T204515_20181218T205922_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T210202_20181218T210705_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T210729_20181218T210843_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T212310_20181218T212742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T213411_20181218T213722_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T213845_20181218T214540_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T221736_20181218T223810_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T224219_20181218T224621_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T225257_20181218T231839_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T235315_20181219T001757_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20181218T115726_20181218T115750_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181218T043857_20181218T044202_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181218T070001_20181218T070425_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181218T083807_20181218T084158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20181218T092615_20181218T092742_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
CS_OFFL_SIR_GOPM_2_20181217T234349_20181218T001036_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_20181218T004139_20181218T010841_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_20181218T011119_20181218T011617_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T011624_20181218T011951_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T012427_20181218T013427_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_20181218T014002_20181218T015748_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_20181218T021021_20181218T021223_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_20181218T024306_20181218T024427_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_20181218T024627_20181218T024646_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_20181218T025117_20181218T025648_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T030328_20181218T033638_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_20181218T040914_20181218T042546_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

	1	
CS_OFFL_SIR_GOPM_2_20181218T043036_20181218T043544_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T044202_20181218T051549_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_20181218T054023_20181218T054457_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_20181218T054539_20181218T060318_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_20181218T061251_20181218T061447_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T062200_20181218T063906_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_20181218T064347_20181218T065231_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T071052_20181218T072827_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T075155_20181218T075357_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181218T075459_20181218T075859_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181218T080053_20181218T081613_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T081815_20181218T082738_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T085120_20181218T085138_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T085442_20181218T090644_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T091251_20181218T091924_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T092223_20181218T092615_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181218T092957_20181218T093801_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T094040_20181218T095529_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_GOPM_2_20181218T103236_20181218T110532_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T110837_20181218T111043_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T111115_20181218T1111644_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T111954_20181218T114429_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_20181218T121609_20181218T122746_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_20181218T123323_20181218T124327_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_20181218T125045_20181218T125531_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T125903_20181218T133024_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_20181218T133438_20181218T133641_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_20181218T135015_20181218T142242_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_20181218T142954_20181218T143523_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T143838_20181218T144311_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_20181218T151414_20181218T151657_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_20181218T152918_20181218T160239_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_20181218T160856_20181218T161409_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T161850_20181218T163548_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_20181218T170734_20181218T174110_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_20181218T174436_20181218T174855_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T174914_20181218T175308_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T175755_20181218T183131_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_20181218T183253_20181218T183540_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T184738_20181218T185834_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_20181218T190316_20181218T190433_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T190446_20181218T192041_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T192237_20181218T192754_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181218T192813_20181218T193009_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181218T195345_20181218T200713_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T200805_20181218T201017_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201812181203310_201812181204335_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T204515_20181218T205922_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20181218T210202_20181218T210705_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T212310_20181218T212742_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20181218T213411_20181218T213722_C001	Backscatter Averaging Status	more records.

CS_OFFL_SIR_GOPM_2_20181218T213845_20181218T214540_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_20181218T221736_20181218T223810_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_20181218T224219_20181218T224621_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20181218T225257_20181218T231839_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_20181218T235315_20181219T001757_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_20181218T115726_20181218T115750_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_20181218T043857_20181218T044202_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_20181218T070001_20181218T070425_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_20181218T083807_20181218T084158_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_20181218T092615_20181218T092742_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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.

Test Failed

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.

CS_OFFL_SIR_GOP_2_20181218T002658_20181218T002658_CO02 Ocean Range Averaging Status. Ice Range Averaging Status Ice Ice Range Av	Product	Test Failed	Description
Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T011635_20181218T020612_C001 CS_OFFL_SIR_GOP_2_20181218T020612_20181218T0205549_C001 CS_OFFL_SIR_GOP_2_20181218T025549_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034502_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034502_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034502_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034302_C001 CS_OFFL_SIR_GOP_2_20181218T034302_20181218T034302_C001 CS_OFFL_SIR_GOP_2_20181218T034302_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_20181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03323_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03220_C001 CS_OFFL_SIR_GOP_2_20181218T03323_C0181218T03220_C001 CS_OFFL_SIR_GOP_2_20181218T03233_C0181218T0320	CS_OFFL_SIR_GOP_220181217T233722_20181218T002658_C002	Ocean Range Averaging Status	
Range Averaging Status Ocean Range Averaging Status CS_OFFL_SIR_GOP_2_20181218T026549_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T025549_20181218T034525_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T043502_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T043502_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T043502_C001 CS_OFFL_SIR_GOP_2_20181218T034525_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T061416_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T0614306_C001 CS_OFFL_SIR_GOP_2_20181218T0633243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T10220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T10220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T10220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T10220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_20181218T100220_C001 CS_	CS_OFFL_SIR_GOP_220181218T002658_20181218T011635_C001		
Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T043502_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T061416_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T07352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T07352_C001 CS_OFFL_SIR_GOP_2_20181218T07352_20181218T07352_C001 CS_OFFL_SIR_GOP_2_20181218T07352_20181218T07352_C001 CS_OFFL_SIR_GOP_2_20181218T07352_20181218T07352_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T003243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T10133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T10133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T10133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T10133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T101133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T101133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T101133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T101133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T101133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T101133_C001 C	CS_OFFL_SIR_GOP_220181218T011635_20181218T020612_C001		
CS_OFFL_SIR_GOP_2_20181218T034525_20181218T043502_C001 CS_OFFL_SIR_GOP_2_20181218T043502_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T043502_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T061416_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T11157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T11157_C001 CS_OFFL_SIR_GOP_2_20181218T11157_20181218T11157_C001 CS_OFFL_SIR_GOP_2_20181218T11157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T1120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_	CS_OFFL_SIR_GOP_220181218T020612_20181218T025549_C001		
Range Averaging Status CS_OFFL_SIR_GOP_2_20181218T043502_20181218T052439_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T061416_C001 CS_OFFL_SIR_GOP_2_20181218T052439_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T003243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T102230_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10233_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10233_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10233_C001 CS_OFFL_S	CS_OFFL_SIR_GOP_220181218T025549_20181218T034525_C001	Ocean Range Averaging Status	
Range Averaging Status Or more records. CS_OFFL_SIR_GOP_2_20181218T052439_20181218T061416_C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T1011157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T1011157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T1011157_C001 CS_OFFL_SIR_GOP_2_20181218T1011157_20181218T101133_C001 Ocean Range Averaging Status, Ice Range Averagin	CS_OFFL_SIR_GOP_220181218T034525_20181218T043502_C001		
CS_OFFL_SIR_GOP_2_20181218T052439_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T070352_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10333_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10333_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10333_C001 CS_OFFL_SIR_GOP_2_20181218T103220_20181218T10333_C001 CS_OFFL_SIR_GOP_2_20181218T10333_C001 CS_OFFL_SIR_GOP_2_20181218T10333_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001	CS_OFFL_SIR_GOP_220181218T043502_20181218T052439_C001		
CS_OFFL_SIR_GOP_2_20181218T061416_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T070352_20181218T075329_C001 CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T101157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_20181218T102230_300000000000000000000000000000000	CS_OFFL_SIR_GOP_220181218T052439_20181218T061416_C001	Ocean Range Averaging Status	
Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T075329_20181218T084306_C001 CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T10313_C001 CS_OFFL_SIR_GOP_2_20181218T103220_20181218T10313_C001	CS_OFFL_SIR_GOP_220181218T061416_20181218T070352_C001	Ocean Range Averaging Status	
Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T093243_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001	CS_OFFL_SIR_GOP_220181218T070352_20181218T075329_C001		
Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T093243_20181218T109220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T102220_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SIR_GOP_3_20181218T1093243_C001 CS_OFFL_SI	CS_OFFL_SIR_GOP_220181218T075329_20181218T084306_C001		
Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 Range Averaging Status, Ice Range Averaging Status, Ice Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T111157_C001 CS_OFFL_SIR_GOP_2_20181218T1111157_C001 CS_OFFL_SIR_GOP_2_20181218T111111157_C001 CS_OFFL_SIR_GOP_2_20181218T1111157_C001 CS_OFFL_SIR_GOP_2_20181218T1111111111111111111111111111111	CS_OFFL_SIR_GOP_220181218T084306_20181218T093243_C001		
Range Averaging Status or more records. CS_OFFL_SIR_GOP_2_20181218T102220_20181218T111157_0001 Range Averaging Status or more records. Ocean Range Averaging Status, Ice The Ocean and Ice Range Averaging Status Flags have been set for one	CS_OFFL_SIR_GOP_220181218T093243_20181218T102220_C001		
	CS_OFFL_SIR_GOP_220181218T102220_20181218T111157_C001		
	CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C001		

CS_OFFL_SIR_GOP_2_20181218T120133_20181218T125110_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_220181218T125110_20181218T134047_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_220181218T134047_20181218T143024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181218T143024_20181218T152000_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_220181218T152000_20181218T160937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181218T160937_20181218T165914_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_220181218T165914_20181218T174851_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_220181218T174851_20181218T183827_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_220181218T183827_20181218T192804_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_220181218T192804_20181218T201741_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_220181218T201741_20181218T210718_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_20181218T210718_20181218T215655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181218T215655_20181218T224632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220181218T224632_20181218T233608_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_20181217T233722_20181218T002658_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T002658_20181218T011635_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_220181218T011635_20181218T020612_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_220181218T020612_20181218T025549_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_220181218T025549_20181218T034525_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_220181218T034525_20181218T043502_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_220181218T043502_20181218T052439_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_220181218T052439_20181218T061416_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_20181218T061416_20181218T070352_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_20181218T070352_20181218T075329_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_220181218T075329_20181218T084306_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_20181218T084306_20181218T093243_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_220181218T093243_20181218T102220_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_20181218T102220_20181218T111157_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_20181218T111157_20181218T120133_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_20181218T120133_20181218T125110_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_20181218T125110_20181218T134047_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_20181218T134047_20181218T143024_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_20181218T143024_20181218T152000_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_20181218T152000_20181218T160937_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_20181218T160937_20181218T165914_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_20181218T165914_20181218T174851_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_20181218T174851_20181218T183827_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_20181218T183827_20181218T192804_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_20181218T192804_20181218T201741_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_20181218T201741_20181218T210718_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_20181218T210718_20181218T215655_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_20181218T215655_20181218T224632_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_20181218T224632_20181218T233608_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.

CS_OFF_SIR_GOP_2_20181218702055_20181218700205_CO01 CS_OFF_SIR_GOP_2_20181218700205_20181218700105_CO01 CS_OFF_SIR_GOP_2_20181218700005_20181218700505_CO01 CS_OFF_SIR_GOP_2_20181218700005_20181218700505_CO01 CS_OFF_SIR_GOP_2_20181218700005_20181218700505_CO01 CS_OFF_SIR_GOP_2_2018121870000000000000000000000000000000	Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20181218T02612_20181218T02632_20181218T02632_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T02632_20181218T02632_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T02632_20181218T026329_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T04502_20181218T026339_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T06329_20181218T06339_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T070339_20101 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T070339_20101 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T070339_20101 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T06339_20181218T084390_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T105339_20181218T084390_CO01 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T11157_20181218T114013_2001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T131137_20181218T14013_2001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16302_20181218T148024_0001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_	CS_OFFL_SIR_GOP_2_20181217T233722_20181218T002658_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_201812187020912_201812187034525_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201812187034525_201812187034525_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201812187034525_20181218703439_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218703439_20181218703438_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218703452_20181218707352_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_2018121870352_20181218707352_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201812187107352_201812187033243_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218710230_2018121871033243_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218710230_20181218710332_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201812187102133_20181218710001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218710133_20181218710001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218710447_20181218710001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201812187180347_201812187183247_001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20181218T002658_20181218T011635_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T034525_20181218T034525_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T034525_20181218T052439_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T052439_20181218T052439_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T061416_20181218T076329_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T076329_20181218T093232_O001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T062202_20181218T1093232_O001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T102220_20181218T11157_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T102232_20181218T120133_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T102233_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T102013_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T1034047_20181218T1034047_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T103042_20181218T1030402001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T103004_20181218T103004001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20181218T011635_20181218T020612_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T034552_20181218T052439_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T053439_20181218T052439_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T061416_20191218T070352_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T070352_20181218T070352_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T076329_20181218T1083206_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T102220_20181218T11157_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T11157_20181218T11157_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T11157_20181218T120133_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T120133_20181218T120130_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T18T3047_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16500_20181218T160007_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16000_20181218T160007_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16000_20181218T160007_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or mo	CS_OFFL_SIR_GOP_2_20181218T020612_20181218T025549_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T043502_20181218T052439_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T052439_20181218T070352_C001 Coean Retracking Quality Flag The Ocean Retr	CS_OFFL_SIR_GOP_2_20181218T025549_20181218T034525_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T052439_20181218T051416_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T070352_20181218T070352_0010 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T070352_20181218T083243_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T05329_20181218T083243_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T10517_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T11157_C0181218T120133_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T120133_20181218T120133_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T125110_20181218T134047_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T134047_20181218T143024_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T134047_20181218T169037_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16914_20181218T169347_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16934_20181218T169347_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T16934_20181218T1693827_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20181218T034525_20181218T043502_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T06418_20181218T070352_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T075329_20181218T083243_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T084306_20181218T083243_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T1052200_20181218T111157_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T111157_20181218T120133_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T128T14047_2011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T148T143047_2011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T14814407_2011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T148047_20181218T143044_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T163037_20181218T169037_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T163914_20181218T183827_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T163937_20181218T183827_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T19132804_20181218T183827_C0011 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record	CS_OFFL_SIR_GOP_2_20181218T043502_20181218T052439_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T076329_20010 Ocean Retracking Quality Flag	CS_OFFL_SIR_GOP_220181218T052439_20181218T061416_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20181218T084306_20181218T093243_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T102220_20181218T11157_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T11157_20181218T1120132_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T120133_20181218T120133_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T120133_20181218T134047_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T143047_20181218T143044_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T143047_20181218T143044_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T143047_20181218T143044_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T163037_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T160937_20181218T169937_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T169934_20181218T174851_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T192804_20181218T192804_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20181218T192804_20181218T207181_C001 Coean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one o	CS_OFFL_SIR_GOP_2_20181218T061416_20181218T070352_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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	CS_OFFL_SIR_GOP_220181218T215655_20181218T224632_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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	CS_OFFL_SIR_GOP_220181218T233608_20181219T002545_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.