



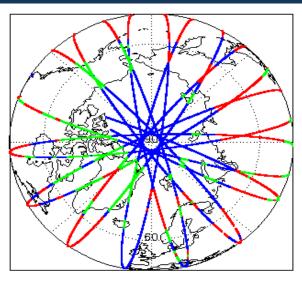
1. Overview

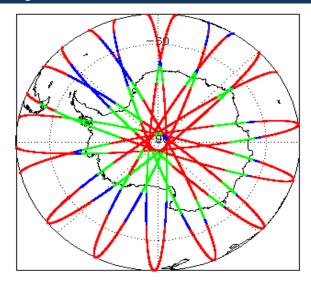
Report Production:	25-May-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

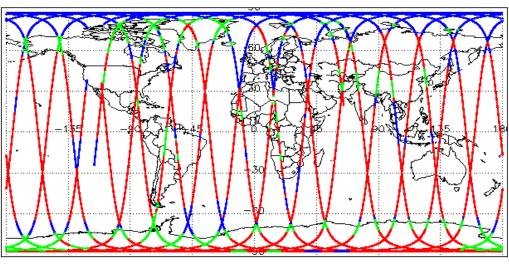
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

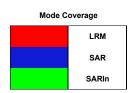
Mission / Instr	ument News
23-Apr-2018	None
24-Apr-2018	None
25-Apr-2018	Nothing planned

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180424T101858_20180424T102516_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20180424T195800_20180424T200502_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180424T015224_20180424T015310_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180424T121011_20180424T123633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T051218_20180424T051530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T064837_20180424T065003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T065330_20180424T065428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T083128_20180424T083342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T174148_20180424T174710_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T183240_20180424T183702_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T201136_20180424T201248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T201419_20180424T201644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T204910_20180424T205013_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T205326_20180424T205716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T210500_20180424T210645_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T215057_20180424T215320_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180424T232435_20180424T232452_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180424T032151_20180424T032531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180424T033432_20180424T034324_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180424T082307_20180424T082444_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180424T115026_20180424T120012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180424T200502_20180424T200954_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors: 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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180424T101858_20180424T102516_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20180424T195800_20180424T200502_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

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

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

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

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

Number of products with errors:

70

Product	Toet Failed	Description
Product CS_OFFL_SIR_GOPM_2_20180423T234004_20180424T000310_C001	Test Failed Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T003537_20180424T004533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T005111_20180424T010231_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T010833_20180424T011428_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T011602_20180424T014456_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T015315_20180424T015427_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	0 00	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T020707_20180424T024131_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T024740_20180424T025259_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T025444_20180424T025738_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T025936_20180424T030058_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T033035_20180424T033432_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T034701_20180424T035540_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T035826_20180424T042045_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180424T042749_20180424T043155_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T043352_20180424T044700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T044847_20180424T045456_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T045639_20180424T050120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T052551_20180424T055912_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T060133_20180424T060640_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T061740_20180424T064818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T065003_20180424T065215_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T065215_20180424T065330_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T070742_20180424T072244_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T072300_20180424T073840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T074032_20180424T074538_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T074616_20180424T074743_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T075515_20180424T080515_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T081133_20180424T082306_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T084456_20180424T090122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T090301_20180424T091729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T091948_20180424T092448_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T092456_20180424T092507_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T092530_20180424T092633_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T093234_20180424T095510_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T095632_20180424T100455_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T103407_20180424T105703_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T110029_20180424T110405_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T111016_20180424T113728_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T121011_20180424T123633_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T123811_20180424T124319_C001	Ice Range Averaging Status	records. The loce Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180424T124326 20180424T124653 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T125015_20180424T130123_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180424T130701 20180424T132407 C001		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_20180424T135112_20180424T135409_C001	Ocean Range Averaging Status	records.

Co.Co.F. _SIR_GOPM20180424T141810_20180424T151900_C0011	CS_OFFL_SIR_GOPM_2_20180424T141000_20180424T141619_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status CS_OFFL_SIR_GOPM_2_201804247156735_201804247150536_001 Cs_OFFL_SIR_GOPM_2_201804247156735_201804247150536_001 Cs_OFFL_SIR_GOPM_2_201804247156735_20180424716026_001 Cs_OFFL_SIR_GOPM_2_20180424716735_20180424716026_001 Cs_OFFL_SIR_GOPM_2_201804247170718_20180424717135_001 Cs_OFFL_SIR_GOPM_2_201804247170718_20180424717135_001 Cs_OFFL_SIR_GOPM_2_201804247170718_20180424717136_001 Cs_OFFL_SIR_GOPM_2_201804247170718_20180424717136_001 Cs_OFFL_SIR_GOPM_2_201804247170718_201804447173610_001 Cs_OFFL_SIR_GOPM_2_201804247170718_20180444718618_001 Cs_OFFL_SIR_GOPM_2_201804247170718_20180444718618_001 Cs_OFFL_SIR_GOPM_2_201804247170719_00180447176180_001 Cs_OFFL_SIR_GOPM_2_20180424718707_20180424718610_001 Cs_OFFL_SIR_GOPM_2_20180424718707_20180424718610_001 Cs_OFFL_SIR_GOPM_2_20180424718707_001804247196104_001 Cs_OFFL_SIR_GOPM_2_20180424718707_20180424718610_001 Cs_OFFL_SIR_GOPM_2_20180424718707_001804247196104_001 Cs_OFFL_SIR_GOPM_2_20180424718707_001804247196104_001 Cs_OFFL_SIR_GOPM_2_20180424718670_001 Cs_OFFL_SIR_GOPM_2_201804247186700_001 Cs_OFFL_SIR_GOPM_2_201804247186700_001 Cs_OFFL_SIR_GOPM_2_201804247186700_001 Cs_OFFL_SIR_GOPM_2_20180424712000_001 Cs_OFFL_SIR_GOPM_2_20180424712000_001 Cs_OFFL_SIR_GOPM_2_20180424712000_001 Cs_OFFL_SIR_GOPM_2_20180424712000_001 Cs_OFFL_SIR_GOPM_2_20180424712000_001 Cs_OFFL_SIR_GOPM_2_20180424712000_001 Cs_OFFL_SI	CS_OFFL_SIR_GOPM_2_20180424T141810_20180424T142351_C001	Ice Range Averaging Status	
CS_OFFL_SIC_COM2 20180424T10593_C0180424T16034_C010 CS_OFFL_SIC_COM2 20180424T10593_C0180424T16034_C010 CS_OFFL_SIC_COM2 20180424T10593_C0180424T17150_C010 CS_OFFL_SIC_COM2 20180424T10793_C0180424T17150_C010 CS_OFFL_SIC_COM2 20180424T10793_C0180424T18010_C010 CS_OFFL_SIC_COM2 20180424T10793_C0180424T18010_C010 CS_OFFL_SIC_COM2 20180424T18051_C018042T18010_C010 CS_OFFL_SIC_COM2 20180424T18051_C018042T18010_C010 CS_OFFL_SIC_COM2 20180424T18051_C018042T18010_C010 CS_OFFL_SIC_COM2 20180424T18051_C01001 CS_OFFL_SIC_COM2 20180424T18051_C01001 CS_OFFL_SIC_COM2 20180424T18051_C01001 CS_OFFL_SIC_COM2 20180424T18051_C01001 CS_OFFL_SIC_COM2 20180424T10014_C018042T18010_C0101 CS_OFFL_SIC_COM2 20180424T10014_C018042T18010_C0101 CS_OFFL_SIC_COM2 20180424T10014_C018042T18010_C0101 CS_OFFL_SIC_COM2 20180424T10014_C018042T18010_C0101 CS_OFFL_SIC_COM2 20180424T10014_C018042T10014_C018	CS_OFFL_SIR_GOPM_2_20180424T142932_20180424T150308_C001	Ocean Range Averaging Status	
CS_OFFL_SR_GOPM_2_20180424T19042_20180424T19156_C001 CS_OFFL_SR_GOPM_2_20180424T19042_20180424T19156_C001 CS_OFFL_SR_GOPM_2_20180424T19042_20180424T19156_C001 CS_OFFL_SR_GOPM_2_20180424T19036_20180424T19156_C001 CS_OFFL_SR_GOPM_2_20180424T19036_20180424T191806_C001 CS_OFFL_SR_GOPM_2_20180424T19036_20180424T191806_C001 CS_OFFL_SR_GOPM_2_20180424T19036_20180424T191806_C001 CS_OFFL_SR_GOPM_2_20180424T19036_20180424T191806_C001 CS_OFFL_SR_GOPM_2_20180424T19036_20180424T191806_C001 CS_OFFL_SR_GOPM_2_20180424T19050_C00180424T191806_C001 CS_OFFL_SR_GOPM_2_20180424T19050_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T19076_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T19076_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T19076_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T19076_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T19076_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T19076_C00180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T1901806_20180424T1901806_C001 CS_OFFL_SR_GOPM_2_20180424T201806_20180424T201806_C001 CS_OFFL_SR_GOPM_2_20180424T201806_20180424T201806_C001 CS_OFFL_SR_GOPM_2_20180424T2001806_20180424T201806_C001 CS_OFFL_SR_GOPM_2_20180424T2001806_20180424T201806_C001 CS_OFFL_SR_GOPM_2_20180424T2001806_20180424T201806_C001 CS_OFFL_SR_GOPM_2_20180424T20018_C0180424T201806_C001 CS_OFFL_SR_GOPM_2_20180424T201806_C0180424T2	CS_OFFL_SIR_GOPM_2_20180424T151643_20180424T151739_C001	Ocean Range Averaging Status	
Decards and process. Sec. OFFL_SIR_GOPM_2_201804241190342_20180424119155_C001 Decard Range Averaging Status CS_OFFL_SIR_GOPM_2_201804241170718_201804241191155_C001 Decard Range Averaging Status CS_OFFL_SIR_GOPM_2_20180424117307_20180424119155_C001 Decard Range Averaging Status CS_OFFL_SIR_GOPM_2_20180424117497_20180424119165_C001 Decard Range Averaging Status CS_OFFL_SIR_GOPM_2_2018042411947_20180424119165_C001 Decard Range Averaging Status CS_OFFL_SIR_GOPM_2_20180424118574_De180424119164_C001 Decard Range Averaging Status Decard Range Ave	CS_OFFL_SIR_GOPM_2_20180424T153621_20180424T155538_C001	Ocean Range Averaging Status	
CS_OFFL_SR_GOPM_2_20180424T17018_20180424T17018_C001 CS_OFFL_SR_GOPM_2_20180424T17039_720180424T17010_C001 CS_OFFL_SR_GOPM_2_20180424T17039_720180424T17010_C001 CS_OFFL_SR_GOPM_2_20180424T17039_720180424T18016_C001 CS_OFFL_SR_GOPM_2_20180424T17039_720180424T18016_C001 CS_OFFL_SR_GOPM_2_20180424T18734_20180424T18016_C001 CS_OFFL_SR_GOPM_2_20180424T18734_20180424T18016_C001 CS_OFFL_SR_GOPM_2_20180424T18734_20180424T18016_C001 CS_OFFL_SR_GOPM_2_20180424T18734_20180424T19024_C001 CS_OFFL_SR_GOPM_2_20180424T19074_20180424T19044_C001 CS_OFFL_SR_GOPM_2_20180424T19074_20180424T19044_C001 CS_OFFL_SR_GOPM_2_20180424T19074_20180424T19044_C001 CS_OFFL_SR_GOPM_2_20180424T19074_20180424T19044_C001 CS_OFFL_SR_GOPM_2_20180424T19074_20180424T19041_C001 CS_OFFL_SR_GOPM_2_20180424T19074_20180424T190191_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201910_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T20016_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T20016_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T2001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200176_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200017_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200017_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200017_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200017_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200017_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T200017_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T100018_20180424T20001001 CS_OFFL_SR_GOPM_2_20180424T100018_20180424T20001001 CS_OFFL_SR_GOPM_	CS_OFFL_SIR_GOPM_2_20180424T155735_20180424T160245_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180424117353_20180424117360_0.C001 CS_OFFL_SIR_GOPM_2_201804241173837_20180424118516_0.C001 CS_OFFL_SIR_GOPM_2_201804241173837_20180424118516_0.C001 CS_OFFL_SIR_GOPM_2_201804241183741_20180424118516_0.C001 CS_OFFL_SIR_GOPM_2_201804241183741_20180424118516_0.C001 CS_OFFL_SIR_GOPM_2_201804241183741_20180424118516_0.C001 CS_OFFL_SIR_GOPM_2_201804241183741_201804241180510_0.C001 CS_OFFL_SIR_GOPM_2_201804241183741_20180424119024_0.C001 CS_OFFL_SIR_GOPM_2_201804241183741_20180424119024_0.C001 CS_OFFL_SIR_GOPM_2_201804241185790_20180424119036_0.C001 CS_OFFL_SIR_GOPM_2_201804241124359_20180424119040_0.C001 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010 CS_OFFL_SIR_GOPM_2_20180424120416_0.0010424120010 CS_OFFL_SIR_GOPM_2_2018042412050716_0.001004241200010 CS_OFFL_SIR_GOPM_2_2018042412005716_0.01004241200001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.01004241200010 CS_OFFL_SIR_GOPM_2_2018042412005716_0.01004241200001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_2018042412005716_0.0100424120001 CS_OFFL_SIR_GOPM_2_201804241200572_0.0100424120001 CS_OFFL_SIR_GOPM_2_201804241200572_0.01004241200501 CS_OFFL_SIR_GOPM_2_2018042411200501 CS_OFFL_SIR_GOPM_2_2018042411050501_0.01001 CS_OFFL_SIR_GOPM_2_2018042411050501_0.01001 CS_OFFL_SIR_GOPM_2_2018042411050501_0.01001 CS_OFFL_SIR_GOPM_2_2018042411050501_0.01001 CS_OFFL_SIR_GOPM_2_2018042411050501_0.010042411	CS_OFFL_SIR_GOPM_2_20180424T160842_20180424T164306_C001	Ocean Range Averaging Status	
CS_OFFL_SR_GOPM_2_20180424T17383_20180424T1848_C001 CS_OFFL_SR_GOPM_2_20180424T18374_20180424T1848_C001 CS_OFFL_SR_GOPM_2_20180424T18374_20180424T19438_C001 CS_OFFL_SR_GOPM_2_20180424T18374_20180424T19438_C001 CS_OFFL_SR_GOPM_2_20180424T192748_20180424T19438_C001 CS_OFFL_SR_GOPM_2_20180424T192748_20180424T194318_C001 CS_OFFL_SR_GOPM_2_20180424T192748_20180424T194318_C001 CS_OFFL_SR_GOPM_2_20180424T192748_20180424T194318_C001 CS_OFFL_SR_GOPM_2_20180424T102748_20180424T194318_C001 CS_OFFL_SR_GOPM_2_20180424T102748_20180424T104191_C001 CS_OFFL_SR_GOPM_2_20180424T201248_20180424T201419_C001 CS_OFFL_SR_GOPM_2_20180424T201248_20180424T201419_C001 CS_OFFL_SR_GOPM_2_20180424T201248_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201248_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T201804_20180424T201911_C001 CS_OFFL_SR_GOPM_2_20180424T20018_20180424T20010 CC_OCARR Range Averaging Status CS_OFFL_SR_GOPM_2_20180424T200170_20180424T20010 CC_OCARR Range Averaging Status CS_OFFL_SR_GOPM_2_20180424T200170_20180424T20000 CC_OCARR Range Averaging Status CC_OFFL_SR_GOPM_2_20180424T200170_20180424T20000 CC_OCARR Range Averaging Status CC_OFFL_SR_GOPM_2_20180424T210000 CC_OCARR Range Averaging Status CC_OFFL_SR_GOPM_2_20180424T210000 CC_OCARR Range Averaging Status CC_OFFL_SR_GOPM_2_20180424T210000 CC_OCARR Range Averaging Status CC_	CS_OFFL_SIR_GOPM_2_20180424T170718_20180424T171155_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180424T1934F_20180424T18816_C001 CS_OFFL_SIR_GOPM_2_20180424T183741_20180424T185613_C001 CS_OFFL_SIR_GOPM_2_20180424T182748_20180424T19438_C001 CS_OFFL_SIR_GOPM_2_20180424T192748_20180424T19438_C001 CS_OFFL_SIR_GOPM_2_20180424T192748_20180424T19438_C001 CS_OFFL_SIR_GOPM_2_20180424T192748_20180424T19540_C001 CS_OFFL_SIR_GOPM_2_20180424T192748_20180424T19540_C001 CS_OFFL_SIR_GOPM_2_20180424T201248_20180424T19540_C001 CS_OFFL_SIR_GOPM_2_20180424T201248_20180424T19540_C001 CS_OFFL_SIR_GOPM_2_20180424T201248_20180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201248_20180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201248_20180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201240_20180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201240_C00180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201240_C00180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201804_20180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T201804_C0180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T2014020_C00180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T2014020_C00180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T2014020_C00180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T2014020_C00180424T201419_C001 CS_OFFL_SIR_GOPM_2_20180424T2014000_C001 CS_OFFL_SIR_GOPM_2_20180424T205110_C00180424T210003_C001 CS_OFFL_SIR_GOPM_2_20180424T200140_C00180424T20000_C001 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T20006_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T200606_C0010 CS_OFFL_SIR_GOPM_2_20180424T100606_C0010 CS_OFFL_SIR_GOPM_2_20180424	CS_OFFL_SIR_GOPM_2_20180424T171235_20180424T173010_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180424T18734T_20180424T185813_C001 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 Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The 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 F	CS_OFFL_SIR_GOPM_2_20180424T173937_20180424T174148_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180424T185701_20180424T190124_C001 CS_OFFL_SIR_GOPM_2_20180424T1945791_20180424T194318_C001 CS_OFFL_SIR_GOPM_2_20180424T194519_20180424T194540_C001 CS_OFFL_SIR_GOPM_2_20180424T194519_20180424T194540_C001 CS_OFFL_SIR_GOPM_2_20180424T194519_20180424T194540_C001 CS_OFFL_SIR_GOPM_2_20180424T194519_20180424T201911_C001 CS_OFFL_SIR_GOPM_2_20180424T20148_20180424T201911_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20194_C001 CS_OFFL_SIR_GOPM_2_20180424T20030_C001 CS_OFFL_SIR_GOPM_2_20180424T20030_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20030_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20040_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20500_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20500_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20500_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T220400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T220400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T220400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T220400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T20400_C001 CS_OFFL_SIR_GOPM_2_20180424T20406_20180424T051530_C001 CS_OFFL_SIR_GOPM_2_20180424T050503_20180424T050500_C001 CS_OFFL_SIR_GOPM_2_20180424T050503_20180424T050500_C001 CS_OFFL_SIR_GOPM_2_20180424T050503_20180424T050500_C001 CS_OFFL_SIR_GOPM_2_20180424T050503_20180424T050500_C001 CS_OFFL_SIR_GOPM_2_20180424T050503_20180424T050500_C001 CS_OFFL_SIR_GOPM_	CS_OFFL_SIR_GOPM_2_20180424T174847_20180424T181816_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_GOPM_2_20180424T2102576_20180424T21023_C001 Ice Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. The loc 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. CS_OFFL_SIR_GOPM_2_20180424T210708_20180424T222310_C001 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 Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20180424T223754_20180424T224354_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPN_2_20180424T	CS_OFFL_SIR_GOPM_2_20180424T202146_20180424T203401_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180424T210026_20180424T210500_C001	CS_OFFL_SIR_GOPM_2_20180424T205013_20180424T205125_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180424T210708_20180424T212221_CO01 CS_OFFL_SIR_GOPM_2_20180424T220017_20180424T223306_CO01 CS_OFFL_SIR_GOPM_2_20180424T223532_20180424T223306_CO01 CS_OFFL_SIR_GOPM_2_20180424T223532_20180424T223748_CO01 CS_OFFL_SIR_GOPM_2_20180424T223554_CO180424T223748_CO01 CS_OFFL_SIR_GOPM_2_20180424T223754_20180424T223748_CO01 CS_OFFL_SIR_GOPM_2_20180424T223754_20180424T223748_CO01 CS_OFFL_SIR_GOPM_2_20180424T224638_20180424T231219_CO01 CS_OFFL_SIR_GOPM_2_20180424T24638_20180424T231219_CO01 CS_OFFL_SIR_GOPM_2_20180424T234507_20180424T235441_CO01 CS_OFFL_SIR_GOPM_2_20180424T051539_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T051218_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T051218_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T150339_20180424T150510_CO01 CS_OFFL_SIR_GOPM_2_20180424T150339_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T051218_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T150339_20180424T150510_CO01 CS_OFFL_SIR_GOPM_2_20180424T05128_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T050128_20180424T051530_CO01 CS_OFFL_SIR_GOPM_2_20180424T050128_20180424T050100_CO01 CS_OFFL_SIR_GOPM_2_20180424T050128_20180424T050100_CO01 CS_OFFL_SIR_GOPM_2_20180424T050128_20180424T050100_CO01 CS_OFFL_SIR_GOPM_2_20180424T050128_20180424T050450_CO01 CS_OFFL_SIR_GOPM_2_20180424T050120180424T050450_CO01 CCean 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 Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag	CS_OFFL_SIR_GOPM_2_20180424T205716_20180424T210023_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOPR_2_201804241173010_201804241173304_C001	CS_OFFL_SIR_GOPR_2_20180424T165704_20180424T170718_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_GOPR_2_20180424T173010_20180424T173304_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_GOPR_2_20180424T182707_20180424T183129_C001	Ocean Range Averaging Status	

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_20180423T234004_20180424T000310_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_20180424T003537_20180424T004533_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_20180424T005111_20180424T010231_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_20180424T010833_20180424T011428_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T011602_20180424T014456_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_20180424T015315_20180424T015427_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_20180424T020707_20180424T024131_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_20180424T024740_20180424T025259_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

	CVAIL A Ct-ture October	The CIANI and Conservation Obstacles Floor have been set for any
CS_OFFL_SIR_GOPM_2_20180424T025444_20180424T025738_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_20180424T033035_20180424T033432_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_20180424T034701_20180424T035540_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180424T035826_20180424T042045_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	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T042749_20180424T043155_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180424T043352_20180424T044700_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_20180424T044847_20180424T045456_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_20180424T052551_20180424T055912_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_20180424T060133_20180424T060640_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T061740_20180424T064818_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T065003_20180424T065215_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T065215_20180424T065330_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180424T070742_20180424T072244_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_20180424T072300_20180424T073840_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_20180424T074032_20180424T074538_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T074616_20180424T074743_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T075515_20180424T080515_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_20180424T081133_20180424T082306_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_20180424T084456_20180424T090122_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T090301_20180424T091729_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T091948_20180424T092448_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T092456_20180424T092507_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T092530_20180424T092633_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180424T093234_20180424T095510_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_20180424T095632_20180424T100455_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_20180424T103407_20180424T105703_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_20180424T110029_20180424T110405_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T111016_20180424T113728_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_20180424T121011_20180424T123633_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_20180424T123811_20180424T124319_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T124326_20180424T124653_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T125015_20180424T130123_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_20180424T130701_20180424T132407_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR GOPM 2 20180424T135112 20180424T135409 C001	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_20180424T141000_20180424T141619_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180424T141810_20180424T142351_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180424T142932_20180424T150308_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_20180424T151643_20180424T151739_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_20180424T153621_20180424T155538_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_20180424T155735_20180424T160245_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T160842_20180424T164306_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_20180424T165500_20180424T165555_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_20180424T170718_20180424T171155_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_20180424T171235_20180424T173010_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_20180424T173937_20180424T174148_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T174847_20180424T181816_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_20180424T183741_20180424T185613_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_20180424T185701_20180424T191024_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
		more records.
CS OFFL SIR GOPM 2 20180424T192748 20180424T194318 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180424T192748_20180424T194318_C001 CS_OFFL_SIR_GOPM_2_20180424T194519_20180424T195440_C001	SWH Averaging Status, Ocean 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_20180424T192748_20180424T194318_C001 CS_OFFL_SIR_GOPM_2_20180424T194519_20180424T195440_C001 CS_OFFL_SIR_GOPM_2_20180424T201248_20180424T201419_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	more records.

CS_OFFL_SIR_GOPM_2_20180424T201804_20180424T201911_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_20180424T202146_20180424T203401_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_20180424T205716_20180424T210023_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T210026_20180424T210500_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T210708_20180424T212221_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_20180424T220017_20180424T223306_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_20180424T223532_20180424T223748_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T223754_20180424T224354_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180424T224638_20180424T231219_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_20180424T234507_20180424T235441_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_20180424T015539_20180424T015601_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_20180424T051218_20180424T051530_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_20180424T150339_20180424T150510_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_20180424T015601_20180424T020400_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_20180424T034455_20180424T034554_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_20180424T165704_20180424T170718_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_20180424T173010_20180424T173304_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_20180424T182707_20180424T183129_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: 62

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).

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180424T101445_20180424T110424_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220180424T192032_20180424T201006_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180423T232949_20180424T001923_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T001923_20180424T010903_C001	lucean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T010903_20180424T015837_C001	0 0 0	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180424T015837_20180424T024816_C001	0 0 0	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_220180424T024816_20180424T033750_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_20180424T033750_20180424T042730_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T042730_20180424T051704_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_220180424T051704_20180424T060643_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_20180424T060643_20180424T065617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T065617_20180424T074557_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_20180424T083531_20180424T092510_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_220180424T092510_20180424T101445_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_220180424T101445_20180424T110424_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_20180424T110424_20180424T115358_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T115358_20180424T124338_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_20180424T124338_20180424T133312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T133312_20180424T142251_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_20180424T142251_20180424T151225_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T151225_20180424T160205_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_220180424T160205_20180424T165139_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_20180424T165139_20180424T174118_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T174118_20180424T183052_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T183052_20180424T192032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T192032_20180424T201006_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_220180424T201006_20180424T205945_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_220180424T205945_20180424T214919_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_220180424T214919_20180424T223859_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_220180424T223859_20180424T232833_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_220180424T232833_20180425T001813_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS OFFL SIR GOP 2 20180423T232949 20180424T001923 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_O11E_3II_GOF_2201004231232949_201004241001923_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOP_2_20180424T001923_20180424T010903_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_20180424T010903_20180424T015837_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_20180424T015837_20180424T024816_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_20180424T024816_20180424T033750_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_20180424T033750_20180424T042730_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_20180424T042730_20180424T051704_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_20180424T051704_20180424T060643_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_20180424T060643_20180424T065617_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_20180424T065617_20180424T074557_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_20180424T083531_20180424T092510_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_20180424T092510_20180424T101445_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_20180424T101445_20180424T110424_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_20180424T110424_20180424T115358_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.

SWH Averaging Status, Coean Backscatter Averaging Status, Coean Backscatter Averaging Status, Coean Backscatter Averaging Status Coean Backscatter Averaging Status, Coean Bac	CS_OFFL_SIR_GOP_2_20180424T115358_20180424T124338_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_20180424T142251_20180424T15225_C001 SBAckscatter Averaging Status, loe Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status, Coean Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status, Coean Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status, Coean Backscatter Averaging Status, Ice Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status, Coean Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags	CS_OFFL_SIR_GOP_2_20180424T124338_20180424T133312_C001		
Backscatter Averaging Status, Ocean Backscatter Averaging Status,	CS_OFFL_SIR_GOP_2_20180424T133312_20180424T142251_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
CS_OFFL_SIR_GOP_2_20180424T151225_20180424T165139_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20180424T174118_20180424T183052_C001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20180424T192032_C0180424T192032_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status	CS_OFFL_SIR_GOP_2_20180424T142251_20180424T151225_C001		
CS_OFFL_SIR_GOP_2_20180424T165139_20180424T174118_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20180424T165139_20180424T174118_C001 SWH Averaging Status CS_OFFL_SIR_GOP_2_20180424T174118_20180424T183052_C001 CS_OFFL_SIR_GOP_2_20180424T183052_20180424T192032_C001 CS_OFFL_SIR_GOP_2_20180424T192032_20180424T192032_C001 CS_OFFL_SIR_GOP_2_20180424T192032_20180424T192032_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status SWH Averaging Status The SWH, Ocean and Ice 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, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averagi	CS_OFFL_SIR_GOP_2_20180424T151225_20180424T160205_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
Backscatter Averaging Status SWH Averaging Status CS_OFFL_SIR_GOP_2_20180424T174118_20180424T183052_C001 SWH Averaging Status CS_OFFL_SIR_GOP_2_20180424T183052_20180424T192032_C001 SWH Averaging Status The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean	CS_OFFL_SIR_GOP_2_20180424T160205_20180424T165139_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_GOP_2_20180424T183052_20180424T192032_C001 Backscatter Averaging Status SWH Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status SWH Averaging Status The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. SWH Averaging Status SWH Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status SWH Averaging Status The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. SWH Averaging Status SWH Averaging Status The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records. SWH Averaging Status SWH Averaging Status The SWH Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_GOP_2_20180424T165139_20180424T174118_C001		
Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20180424T192032_20180424T201006_C001 Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20180424T205945_20180424T214919_C001 CS_OFFL_SIR_GOP_2_20180424T214919_20180424T232859_C001 CS_OFFL_SIR_GOP_2_20180424T214919_20180424T232859_C001 CS_OFFL_SIR_GOP_2_20180424T232859_20180424T232833_C001 CS_OFFL_SIR_GOP_2_20180424T232859_20180424T232833_C001 Backscatter Averaging Status, Ice Backscatter Aver	CS_OFFL_SIR_GOP_2_20180424T174118_20180424T183052_C001		
CS_OFFL_SIR_GOP_2_20180424T201006_20180424T205945_C001 Backscatter Averaging Status, Ice Backscatter Averag	CS_OFFL_SIR_GOP_2_20180424T183052_20180424T192032_C001		
CS_OFFL_SIR_GOP_2_20180424T201006_20180424T205945_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Aver	CS_OFFL_SIR_GOP_2_20180424T192032_20180424T201006_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_GOP_2_20180424T205945_20180424T214919_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Av	CS_OFFL_SIR_GOP_2_20180424T201006_20180424T205945_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20180424T214919_20180424T223859_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ice Backscatter Averaging Status Averagin	CS_OFFL_SIR_GOP_2_20180424T205945_20180424T214919_C001	Backscatter Averaging Status, Ice	
CS_OFFL_SIR_GOP_2_20180424T223859_20180424T232833_C001 Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_GOP_2_20180424T214919_20180424T223859_C001	Backscatter Averaging Status, Ice	
	CS_OFFL_SIR_GOP_2_20180424T223859_20180424T232833_C001	Backscatter Averaging Status, Ice Backscatter Averaging Status	or more records.
	CS_OFFL_SIR_GOP_2_20180424T232833_20180425T001813_C003		

6.8 P2P Ocean Retracking Quality Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180423T232949_20180424T001923_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T010903_20180424T015837_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T015837_20180424T024816_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T024816_20180424T033750_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T033750_20180424T042730_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T042730_20180424T051704_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T051704_20180424T060643_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T065617_20180424T074557_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T083531_20180424T092510_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T092510_20180424T101445_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T101445_20180424T110424_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T110424_20180424T115358_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T115358_20180424T124338_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T133312_20180424T142251_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T142251_20180424T151225_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T160205_20180424T165139_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T165139_20180424T174118_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T174118_20180424T183052_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T183052_20180424T192032_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T192032_20180424T201006_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T201006_20180424T205945_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180424T205945_20180424T214919_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T214919_20180424T223859_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T223859_20180424T232833_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180424T232833_20180425T001813_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.