



1. Overview

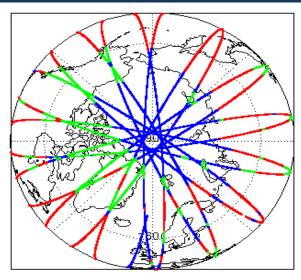
Report Production:	03-Jan-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

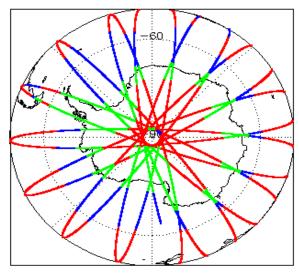
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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

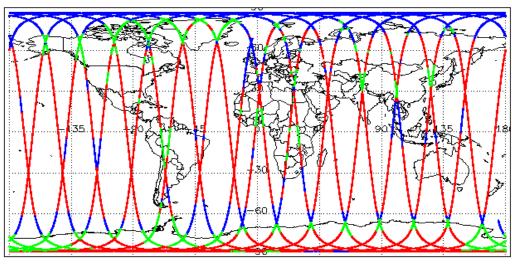
wission / instrument news		
02-Dec-2017	None	

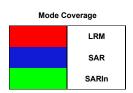
03-Dec-2017 None 04-Dec-2017 Nothing planned

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.

Number of products with errors:

53

Number of products with errors: 53		
Product	Test Failed	Description There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_GOPM1B_20171203T050254_20171203T051004_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_GOPM1B_20171203T064557_20171203T065715_C001	Power scaling error	records
CS_OFFL_SIR_GOPR1B_20171203T013940_20171203T014011_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T015852_20171203T015935_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T021251_20171203T021856_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T023008_20171203T023051_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T024554_20171203T024756_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T035108_20171203T035147_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T040918_20171203T041034_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T042457_20171203T043313_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T045912_20171203T045956_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T053430_20171203T053613_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T062433_20171203T062643_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T062643_20171203T062714_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T072726_20171203T072927_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T080627_20171203T081517_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T083629_20171203T084019_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T085112_20171203T085543_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T090624_20171203T090844_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T091251_20171203T091734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T094653_20171203T095439_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T112354_20171203T112608_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T121025_20171203T121227_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T121830_20171203T121836_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T122358_20171203T122744_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T130626_20171203T131347_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T134945_20171203T135034_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T140139_20171203T140842_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T144540_20171203T145059_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T153640_20171203T153646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T161944_20171203T162026_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR GOPR1B 20171203T162427 20171203T163029 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T163651_20171203T163659_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T163701_20171203T163708_C001	Attitude correction missing	The attitude has not been corrected
	•	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T170731_20171203T170902_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T172102_20171203T172256_C001	Attitude correction missing	
CS_OFFL_SIR_GOPR1B_20171203T185957_20171203T190236_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T191312_20171203T191846_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T195649_20171203T195719_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T211703_20171203T211739_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T211911_20171203T212807_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T213051_20171203T213209_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T213227_20171203T213240_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T213656_20171203T213734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T213940_20171203T214020_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T215818_20171203T215953_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T220222_20171203T220747_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T221746_20171203T222133_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T224247_20171203T224532_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T230642_20171203T230700_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T231209_20171203T231403_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T231612_20171203T231808_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171203T233137_20171203T233325_C001	Attitude correction missing	The attitude has not been corrected

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors: 26

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20171203T031927_20171203T033636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171203T080422_20171203T080627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171203T151409_20171203T152849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171203T182158_20171203T184639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T004421_20171203T004942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T031701_20171203T031927_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T035147_20171203T035249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T062832_20171203T062900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T081517_20171203T082036_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T094556_20171203T094653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T144021_20171203T144539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T153821_20171203T154434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T162027_20171203T162426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T171744_20171203T172102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171203T213734_20171203T213940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T021251_20171203T021856_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T085112_20171203T085543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T093956_20171203T094315_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T111400_20171203T111509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T111842_20171203T112323_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T164702_20171203T165226_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T180248_20171203T181117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T213656_20171203T213734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T221746_20171203T222133_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T234332_20171203T234729_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171203T235704_20171204T000017_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors: 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171203T050254_20171203T051004_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_20171203T064557_20171203T065715_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:

74

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171203T000955_20171203T001433_C001	IUcean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.

Co. PRIL SE CORPLE 2 OF 1001700000 COT 100000 COT 100	CS_OFFL_SIR_GOPM_2_20171203T001512_20171203T003329_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Description Communication			The Ice Range Averaging Status Flag has been set for one or more
Dec. Comp. 19 (and power plants) positivostemanos policies. Comp. 19 (and power plants) policies. Page participants that page base part on the most policy. Page policies policies and page page page page page page page page			The Ocean Range Averaging Status Flag has been set for one or more
Decomption Dec			The Ocean Range Averaging Status Flag has been set for one or more
Description of the control of the co			The Ocean Range Averaging Status Flag has been set for one or more
Description of the property of			The Ice Range Averaging Status Flag has been set for one or more
COUNT_BR_COVE_201710017000561_201710017000561_C001 COUNT_BR_COVE_201710017000562_201710017000561_C001 COUNT_BR_COVE_201710017000562_201710017000561_C001 COUNT_BR_COVE_20171000700662_201710017000561_C001 COUNT_BR_COVE_20171000700662_201710017000561_C001 COUNT_BR_COVE_20171000700662_20171000700662_C001 COUNT_BR_COVE_20171000700662_201710007006662_C001 COUNT_BR_COVE_20171000700662_20171000700662_C001 COUNT_BR_COVE_20171000700662_C001 COUNT_BR_COVE_20171000700662_C001 COUNT_BR_COVE_20171000700662_C001 COUNT_BR_COVE_20171000700662_C00			The Ice Range Averaging Status Flag has been set for one or more
Co. OFF. SER, COPE _2 201710037810476 _20171003700400, COTO CO. OFF. SER, COPE _2 201710037810472 _20171003700400, COTO CO. OFF. SER, COPE _2 201710037810400 _20171003700400, COTO CO. OFF. SER, COPE _2 20171003700400 _20171003700400, COTO CO. OFF. SER, COPE _2 20171003700400 _20171003700400, COTO CO. OFF. SER, COPE _2 20171003700400 _201710037			The Ocean Range Averaging Status Flag has been set for one or more
Co. Circl. Str. (CoPM 2_201712011010727_2017120110101010727_2017120171			The Ocean Range Averaging Status Flag has been set for one or more
CS_CPT_SR_COPM_2_POTTIONTIONITY_COTTIONITY_C			The Ice Range Averaging Status Flag has been set for one or more
CB_OFF_SIR_COMPL_20171293790256_20171293790256_2018 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_20171293790256_0019 CB_OFF_SIR_COMPL_20171293790256_0019 CB_OFF_SIR_			
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CB_OFF_SIR_GOPM_2_2017/2007164265_2017/2007154266_2010 CB_OFF_SIR_GOPM_2_2017/2007160254_2017/2007155010_C010 CB_OFF_SIR_GOPM_2_2017/2007160254_2017/2007155010_C010 CB_OFF_SIR_GOPM_2_2017/2007160254_2017/2007155010_C010 CB_OFF_SIR_GOPM_2_2017/2007160662_2017/2007156025_2010 CB_OFF_SIR_GOPM_2_2017/2007166062_2017/2007156062_2010 CB_OFF_SIR_GOPM_2_2017/2007166062_2017/2007166			
CS_OFF_SR_GOPU_2_201712017149866_20171201715100 Ocean Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716986_20171201715100 Ocean Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716986_2017120171510 Ocean Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716986_2017120171513_Ocean Common Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716986_2017120171513_Ocean Common Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716986_2017120171713_Ocean Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716987_2017120171713_Ocean Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716987_2017120171713_Ocean Range Averaging Status Plag has been set for one or more condense. CS_OFF_SR_GOPU_2_20171201716987_20171201717130170171698_2011 CS_OFF_SR_GOPU_2_20171201716987_2017120171701701701828_2011 CS_OFF_SR_GOPU_2_20171201716987_2017120171701701828_2011 CS_OFF_SR_GOPU_2_2017120171701820171201712018_0011 CS_OFF_SR_GOPU_2_2017120171701820171201712018_0011 CS_OFF_SR_GOPU_2_201712017119018_20171201712018_0011 CS_OFF_SR_GOPU_2_201712017119018_20171201712018_0011 CS_OFF_SR_GOPU_2_2017120171201712018_0011 CS_OFF_SR_GOPU_2_201712017112018_001112017_0011 CS_OFF_SR_GOPU_2_2017120171201712018_0011 CS_OFF_SR_GOPU_2_20			
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CS_OFFL_SIR_GOPM_2_20171203T09406_20171203T07541_C001 CS_OFFL_SIR_GOPM_2_20171203T07616_20171203T07541_C001 CS_OFFL_SIR_GOPM_2_20171203T07616_20171203T07541_C001 CS_OFFL_SIR_GOPM_2_20171203T076246_20171203T075451_C001 CS_OFFL_SIR_GOPM_2_20171203T076247_20171203T075452_C001 CS_OFFL_SIR_GOPM_2_20171203T076247_20171203T076582_C001 CS_OFFL_SIR_GOPM_2_20171203T06205_20171203T08582_C001 CS_OFFL_SIR_GOPM_2_20171203T06205_20171203T08582_C001 CS_OFFL_SIR_GOPM_2_20171203T06205_20171203T09590_C001 CS_OFFL_SIR_GOPM_2_20171203T06205_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T06205_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T10933_20171203T10912_C001 CS_OFFL_SIR_GOPM_2_20171203T109130_C001 CS_OFFL_			
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CS_OFFL_SIR_GOPM_2_2017120317023927_201712031703050826_ CS_OFFL_SIR_GOPM_2_201712031703030230328_ CS_OFFL_SIR_GOPM_2_2017120317030302328_ CS_OFFL_SIR_GOPM_2_201712031703030232_ CS_OFFL_SIR_GOPM_2_201712031703030232_ CS_OFFL_SIR_GOPM_2_201712031703030232_ CS_OFFL_SIR_GOPM_2_201712031703030232_ CS_OFFL_SIR_GOPM_2_201712031703030232_ CS_OFFL_SIR_GOPM_2_20171203170303023_ CS_OFFL_SIR_GOPM_2_20171203170303023_ CS_OFFL_SIR_GOPM_2_2017120317030310312_ CS_OFFL_SIR_GOPM_2_2017120317030310_ CS_OFFL_SIR_GOPM_2_201712031703031_ CS_OFFL_SIR_GOPM_2_201712031703032_ CS_OFFL_SIR_GOPM_2_20171203170303103032_ CS_OFFL_SIR_GOPM_2_20171203170303103032_ CS_OFFL_SIR_GOPM_2_20171203170303103032_ CS_OFFL_SIR_GOPM_2_20171203170303103032_ CS_OFFL_SIR_GOPM_2_201712031			records.
CG_OFFL_SIR_GOPM_2_20171203T069207_20171203T085828_C001 Ocean Range Averaging Status CG_OFFL_SIR_GOPM_2_20171203T069207_20171203T09509_C001 CS_OFFL_SIR_GOPM_2_20171203T069207_20171203T091251_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has been set for one or more records. The Coean Range Averaging Status Flag has bee			records.
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CS_OFFL_SIR_GOPM_2_20171203T182158_20171203T185456_C001 CS_OFFL_SIR_GOPM_2_20171203T185036_20171203T185456_C001 CS_OFFL_SIR_GOPM_2_20171203T185036_20171203T185456_C001 CS_OFFL_SIR_GOPM_2_20171203T185036_20171203T185456_C001 CS_OFFL_SIR_GOPM_2_20171203T185036_20171203T185456_C001 CS_OFFL_SIR_GOPM_2_20171203T185000_20171203T185510_C001 CS_OFFL_SIR_GOPM_2_20171203T185500_20171203T185510_C001 CS_OFFL_SIR_GOPM_2_20171203T185500_20171203T185510_C001 CS_OFFL_SIR_GOPM_2_20171203T185500_20171203T185510_C001	CS_OFFL_SIR_GOPM_2_20171203T171116_20171203T171556_C001	Ice Range Averaging Status	records.
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CS_OFFL_SIR_GOPM_2_201712031165006_201712031165450_C001	CS_OFFL_SIR_GOPM_2_20171203T182158_20171203T184639_C001	Ocean Range Averaging Status	records.
US OFFI SIR GOPM 2 2017/12031/85500 2017/12031/85510 COUT	CS_OFFL_SIR_GOPM_2_20171203T185036_20171203T185456_C001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_GOPM_2_20171203T185500_20171203T185510_C001	Ice Range Averaging Status	

CS_OFFL_SIR_GOPM_2_20171203T185516_20171203T185841_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T190236_20171203T191312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T191847_20171203T192842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T193037_20171203T193329_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T200033_20171203T202545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T202929_20171203T203410_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T204309_20171203T211536_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T212808_20171203T213050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T220914_20171203T221436_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T222133_20171203T224246_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T224533_20171203T225606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T230700_20171203T231048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T232648_20171203T233137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T233325_20171203T234332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171203T062832_20171203T062900_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171203T112608_20171203T112704_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171203T185510_20171203T185516_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171203T193330_20171203T193940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171203T235335_20171203T235703_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171203T004942_20171203T005155_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171203T062643_20171203T062714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171203T132807_20171203T133247_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. 75

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171203T000955_20171203T001433_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_20171203T001512_20171203T003329_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_20171203T005155_20171203T012702_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_20171203T014011_20171203T015852_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_20171203T015935_20171203T021251_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_20171203T022131_20171203T022329_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T022456_20171203T022831_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T023051_20171203T024554_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_20171203T024756_20171203T025718_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_20171203T031527_20171203T031701_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T031927_20171203T033636_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_20171203T035951_20171203T040254_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T040259_20171203T040733_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T041034_20171203T042424_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_20171203T042451_20171203T042456_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_20171203T045956_20171203T050131_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_20171203T050254_20171203T051004_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_20171203T051045_20171203T053430_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_20171203T053804_20171203T054021_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T054024_20171203T054629_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T054958_20171203T061456_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_20171203T064557_20171203T065715_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20171203T070249_20171203T071313_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_20171203T072927_20171203T075540_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_20171203T082037_20171203T083628_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_20171203T084020_20171203T085112_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20171203T085927_20171203T090509_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T094411_20171203T094526_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_20171203T095836_20171203T103129_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_20171203T103831_20171203T104343_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T104920_20171203T110519_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_20171203T113629_20171203T121025_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_20171203T121837_20171203T122250_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T122744_20171203T130106_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_20171203T131609_20171203T132807_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 20171203T133247 20171203T133429 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 20171203T133455 20171203T134945 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_20171203T135208_20171203T135729_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171203T135748_20171203T135955_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_20171203T140842_20171203T142106_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20171203T142300_20171203T144020_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_20171203T150237_20171203T151207_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_20171203T151409_20171203T152849_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_20171203T153134_20171203T153629_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T154439_20171203T154732_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_20171203T160233_20171203T161532_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_20171203T165226_20171203T170730_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR GOPM 2 20171203T171116 20171203T171556 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 20171203T172256 20171203T174539 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20171203T174541_20171203T175652_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 201712037174541_201712037174639 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_20171203T185036_20171203T185456_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171203T185500_20171203T185510_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171203T185516_20171203T185841_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20171203T190236_20171203T191312_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_20171203T191847_20171203T192842_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_20171203T193037_20171203T193329_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_20171203T200033_20171203T202545_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_20171203T202929_20171203T203410_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T204309_20171203T211536_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_20171203T215953_20171203T220222_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_20171203T220914_20171203T221436_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171203T222133_20171203T224246_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20171203T224533_20171203T225606_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_20171203T230700_20171203T231048_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_20171203T232648_20171203T233137_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_20171203T233325_20171203T234332_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_GOPN_2_20171203T062832_20171203T062900_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPN_2_20171203T112608_20171203T112704_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_20171203T185510_20171203T185516_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171203T193330_20171203T193940_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_20171203T235335_20171203T235703_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPR_2_20171203T004942_20171203T005155_C001 **Backscatter Averaging Status** SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPR 2 20171203T062643 20171203T062714 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPR_2_20171203T132807_20171203T133247_C001 Backscatter Averaging Status 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

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171203T045155_20171203T054130_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220171203T063108_20171203T072043_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_220171202T235414_20171203T004349_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T004349_20171203T013327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T013327_20171203T022302_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T022302_20171203T031241_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_220171203T031241_20171203T040216_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_220171203T040216_20171203T045155_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_220171203T045155_20171203T054130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T054130_20171203T063108_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_220171203T063108_20171203T072043_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T072043_20171203T081022_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_220171203T081022_20171203T085957_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T085957_20171203T094935_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_220171203T103911_20171203T112849_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_220171203T112849_20171203T121824_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_220171203T121824_20171203T130803_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_220171203T130803_20171203T135738_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_220171203T135738_20171203T144716_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_20171203T144716_20171203T153651_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_20171203T153651_20171203T162630_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_220171203T171605_20171203T180543_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_220171203T180543_20171203T185519_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_220171203T185519_20171203T194457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T194457_20171203T203432_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_220171203T203432_20171203T212410_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T212410_20171203T221346_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_220171203T221346_20171203T230324_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T230324_20171203T235259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

SWH Averaging Status, Ocean

Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status, Ice

Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status, Ice Backscatter Averaging Status 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 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 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 SWH Averaging Status, Ocean

Backscatter Averaging Status
SWH Averaging Status, Ocean

Backscatter Averaging Status

SWH Averaging Status, Ocean

Backscatter Averaging Status

Backscatter Averaging Status, Ice Backscatter Averaging Status SWH Averaging Status. Ocean

Backscatter Averaging Status, Ice

Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status SWH Averaging Status, Ocean

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.

Number of products with errors:

Test Faile
SWH Ave

SWH Averaging Status, Ocean
Backscatter Averaging Status

SWH Averaging Status, Ocean
Backscatter Averaging Status

The SW
more re

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

SWH Averaging Status, Ocean

The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status

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 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 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.

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 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

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, 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.

Product	
CS_OFFL_SIR_GOP_2_	_20171202T235414_20171203T004349_C002
CS_OFFL_SIR_GOP_2_	_20171203T004349_20171203T013327_C001
CS_OFFL_SIR_GOP_2_	_20171203T013327_20171203T022302_C001
CS_OFFL_SIR_GOP_2_	_20171203T022302_20171203T031241_C001
CS_OFFL_SIR_GOP_2_	_20171203T031241_20171203T040216_C001
CS_OFFL_SIR_GOP_2_	_20171203T040216_20171203T045155_C001
CS_OFFL_SIR_GOP_2_	_20171203T045155_20171203T054130_C001
CS_OFFL_SIR_GOP_2_	_20171203T054130_20171203T063108_C001
CS_OFFL_SIR_GOP_2_	_20171203T063108_20171203T072043_C001
CS_OFFL_SIR_GOP_2_	_20171203T072043_20171203T081022_C001
CS_OFFL_SIR_GOP_2_	_20171203T081022_20171203T085957_C001
CS_OFFL_SIR_GOP_2_	_20171203T085957_20171203T094935_C001
CS_OFFL_SIR_GOP_2_	_20171203T103911_20171203T112849_C001
CS_OFFL_SIR_GOP_2_	_20171203T112849_20171203T121824_C001
CS_OFFL_SIR_GOP_2_	_20171203T121824_20171203T130803_C001
CS_OFFL_SIR_GOP_2_	_20171203T130803_20171203T135738_C001
CS_OFFL_SIR_GOP_2_	_20171203T135738_20171203T144716_C001
CS_OFFL_SIR_GOP_2_	_20171203T144716_20171203T153651_C001
CS_OFFL_SIR_GOP_2_	_20171203T153651_20171203T162630_C001
CS_OFFL_SIR_GOP_2_	_20171203T171605_20171203T180543_C001
CS_OFFL_SIR_GOP_2_	_20171203T180543_20171203T185519_C001
CS_OFFL_SIR_GOP_2_	_20171203T185519_20171203T194457_C001
CS_OFFL_SIR_GOP_2_	_20171203T194457_20171203T203432_C001
CS_OFFL_SIR_GOP_2_	_20171203T203432_20171203T212410_C001

CS_OFFL_SIR_GOP_2_20171203T212410_20171203T221346_C001		The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T221346_20171203T230324_C001	5 5	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T230324_20171203T235259_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171202T235414_20171203T004349_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T004349_20171203T013327_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T013327_20171203T022302_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T022302_20171203T031241_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T031241_20171203T040216_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T040216_20171203T045155_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T045155_20171203T054130_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T054130_20171203T063108_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T063108_20171203T072043_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T072043_20171203T081022_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T081022_20171203T085957_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T085957_20171203T094935_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T112849_20171203T121824_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T121824_20171203T130803_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T130803_20171203T135738_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T135738_20171203T144716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T144716_20171203T153651_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T153651_20171203T162630_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T171605_20171203T180543_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T180543_20171203T185519_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T185519_20171203T194457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T194457_20171203T203432_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T203432_20171203T212410_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171203T212410_20171203T221346_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T221346_20171203T230324_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171203T230324_20171203T235259_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.