



1. Overview

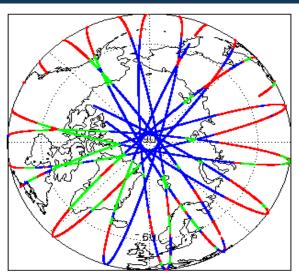
Report Production:	16-Feb-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

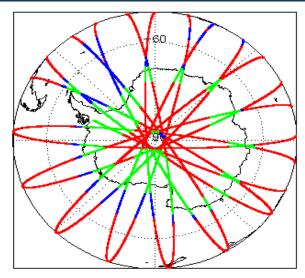
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	See Section 5.2	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

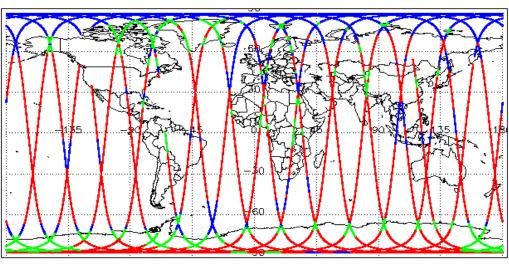
Mission / Instrument News		
13-Feb-2018	None	
13-Feb-2018 14-Feb-2018	None	

15-Feb-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. IOP 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:

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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 IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180214T124006_20180214T124721_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180214T233817_20180214T234740_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:

23

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180214T054633_20180214T054716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180214T065228_20180214T070700_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180214T233817_20180214T234740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T005551_20180214T005803_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T023510_20180214T023955_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T050724_20180214T050847_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T054816_20180214T054907_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T090302_20180214T090339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T090419_20180214T090701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T104640_20180214T104743_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T122109_20180214T122421_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T150054_20180214T150236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T163955_20180214T164135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T190806_20180214T190906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180214T222539_20180214T222659_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T005132_20180214T005551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T040534_20180214T041545_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T053930_20180214T053942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T054259_20180214T054328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T141051_20180214T141234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T155059_20180214T155311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T191811_20180214T192014_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180214T221823_20180214T222428_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_IOPR_2_20180214T123844_20180214T123850_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

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).

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_IOPM_2_20180214T124006_20180214T124721_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180214T233817_20180214T234740_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.

Commonstrate Comm	Product	Test Failed	Description
County Bull (UPP 2, 201002141700302, 201002141701305, 20100214	CS_OFFL_SIR_IOPM_2_20180214T001133_20180214T002629_C001	Ocean Range Averaging Status	
South Transport Among States Second State Secon	CS_OFFL_SIR_IOPM_2_20180214T002809_20180214T003052_C001	Ocean Range Averaging Status	
SCOPEL_SIS_COPEL_2 20180214T01510_20180214T03150_C001 CS_OPEL_SIS_COPEL_2 20180214T032237_20180214T03150_C001 CS_OPEL_SIS_COPEL_2 20180214T032237_20180214T03250_C001 CS_OPEL_SIS_COPEL_2 20180214T032337_20180214T03250_C001 CS_OPEL_SIS_COPEL_2 20180214T032337_20180214T03250_C001 CS_OPEL_SIS_COPEL_2 20180214T030337_20180214T03250_C001 CS_OPEL_SIS_COPEL_2 20180214T030337_20180214T030350_C001 CS_OPEL_SIS_COPEL_2 20180214T030317_20180214T030350_C001 CS_OPEL_SIS_COPEL_2 20180214T030317_20180214T030312_C001 CS_OPEL_SIS_COPEL_2 20180214T030317_20180214T030312_C001 CS_OPEL_SIS_COPEL_2 20180214T030312_C001 CS_OPEL_SIS_COPEL_2 20180214T030312_C001	CS_OFFL_SIR_IOPM_2_20180214T010502_20180214T011052_C001	Ocean Range Averaging Status	
SCOPPL_SIR_COND_2 0000241700229 C0010 Cosen Range Averaging Status The Cosen Range Averaging Status	CS_OFFL_SIR_IOPM_2_20180214T011335_20180214T013746_C001	Ocean Range Averaging Status	
SCOPEL_SIR_OPH_2_20180214T032827_20180214T032845_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032845_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032827_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032827_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032827_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032827_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032827_C001 CS_OPEL_SIR_OPH_2_20180214T032827_20180214T032827_C001 CS_OPEL_SIR_OPH_2_20180214T030312_20180214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030312_C00214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030312_C00214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030322_C00214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030322_C00214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030322_C00214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030322_C001 CS_OPEL_SIR_OPH_2_20180214T030322_C00214T030312_C001 CS_OPEL_SIR_OPH_2_20180214T030302_C00214T030312_C001 CS_OPEL_SIR_OPH_2_2018021	CS_OFFL_SIR_IOPM_2_20180214T014008_20180214T014853_C001	Ice Range Averaging Status	
Segurity Part Codes (1997) Codes (CS_OFFL_SIR_IOPM_2_20180214T015100_20180214T021509_C001	Ocean Range Averaging Status	
tex range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_OPNL_2_00180214T000017_0180214T0010027_010001 CS_OFF_SIR_OPNL_2_00180214T000017_0180214T0010027_010001 CS_OFF_SIR_OPNL_2_00180214T000013_00180214T001001_0001 CS_OFF_SIR_OPNL_2_00180214T000013_00180214T000013_0001 CS_OFF_SIR_OPNL_2_001802	CS_OFFL_SIR_IOPM_2_20180214T024210_20180214T031650_C001	Ocean Range Averaging Status	
CS_OFFL_SR_OPM_2_2018021470444_20180214016384_C001 Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214704414_20180214104589_C001 Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214705417_20180214105695_C001 Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214705417_20180214105285_C001 Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214105175_20180214105285_C001 Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214105175_20180214105285_C001 Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214705017_201802141065105_C001 Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status CS_OFFL_SR_OPM_2_20180214705017_201802141065105_C001 Ocean Range Averaging Status In Ocean Range Averagi	CS_OFFL_SIR_IOPM_2_20180214T032224_20180214T032646_C001	Ice Range Averaging Status	
Coconting Control (Coconting Control (Coconting Control (Coconting Control (Coconting Control (Coconting Control (Coconting Coconting Co	CS_OFFL_SIR_IOPM_2_20180214T032937_20180214T040314_C001	Ocean Range Averaging Status	
Coes Range Averaging Status Coes Range Avera	CS_OFFL_SIR_IOPM_2_20180214T042340_20180214T043841_C001	Ocean Range Averaging Status	
CS_OFFL_SR_JOPM_2_201802417085092_201802417085792_001002417081802_0001 Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine 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. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been set for one or more records. Ocean Range Averaging Status Fine Coean Range Averaging Status Flag has been s	CS_OFFL_SIR_IOPM_2_20180214T044414_20180214T045556_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_JOPM_2_20180214T060013_20180214T0605102_0001 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	CS_OFFL_SIR_IOPM_2_20180214T051756_20180214T052637_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180214T072314_20180214T072551_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T072557_20180214T072555_C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T073554_20180214T0748155_C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T082500_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T084911_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T085000_20180214T085426_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T085572_20180214T090214_C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T090214_C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T095415_20180214T095546_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T095415_20180214T095546_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T10405_20180214T102513_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T10405_20180214T102513_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for	CS_OFFL_SIR_IOPM_2_20180214T064733_20180214T065041_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180214T072527_20180214T072557_C0101 CS_OFFL_SIR_IOPM_2_20180214T073954_20180214T074551_C001 CS_OFFL_SIR_IOPM_2_20180214T073954_20180214T074551_C001 CS_OFFL_SIR_IOPM_2_20180214T073954_20180214T081352_C001 CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T081352_C001 CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T082500_C001 Loc Range Averaging Status CS_OFFL_SIR_IOPM_2_20180214T082710_20180214T084911_C001 CS_OFFL_SIR_IOPM_2_20180214T08270_20180214T085426_C001 CS_OFFL_SIR_IOPM_2_20180214T08270_20180214T085426_C001 CS_OFFL_SIR_IOPM_2_20180214T08500_20180214T085426_C001 CS_OFFL_SIR_IOPM_2_20180214T08500_20180214T095141_C001 CS_OFFL_SIR_IOPM_2_20180214T08500_20180214T090214_C001 CS_OFFL_SIR_IOPM_2_20180214T082059_20180214T090214_C001 CS_OFFL_SIR_IOPM_2_20180214T082059_20180214T090514_C001 CS_OFFL_SIR_IOPM_2_20180214T095059_20180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T095059_0180214T111411_C001 CS_OFFL_SIR_IOPM_2_20180214T111333_0180214T1096505_0180214T11338_001 CS_OFFL_SIR_IOPM_2_20180214T111333_0180214T11338_001 CS_OFFL_SIR_IOPM_2_20180214T111333_0180214T11338_001 CS_OFFL_SIR_IOPM_2_20180214T111333_0180214T11338_001 CS_OFFL_SIR_IOPM_2_20180214T113333_0180214T113338_001 CS_OFFL_SIR_IOPM_2_20180214T113333_0180214T113338_001 CS_OFFL_SIR_IOPM_2_20180214T113333_0180214T113333_00180214T113333_00180214T113333_0180214T113333_00180214T1133333_0180214T1133333_0180214T1133333_01	CS_OFFL_SIR_IOPM_2_20180214T065228_20180214T070700_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180214T082592_20180214T08550_C001 CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T08500_C001 CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T082500_C001 CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T082500_C001 CS_OFFL_SIR_IOPM_2_20180214T082049_20180214T082500_C001 CS_OFFL_SIR_IOPM_2_20180214T082040_20180214T084911_C001 CS_OFFL_SIR_IOPM_2_20180214T082010_20180214T084911_C001 CS_OFFL_SIR_IOPM_2_20180214T082010_20180214T084911_C001 CS_OFFL_SIR_IOPM_2_20180214T08200_20180214T084911_C001 CS_OFFL_SIR_IOPM_2_20180214T08500_20180214T084911_C001 CS_OFFL_SIR_IOPM_2_20180214T085752_20180214T090214_C001 CS_OFFL_SIR_IOPM_2_20180214T085752_20180214T094513_C001 CS_OFFL_SIR_IOPM_2_20180214T085752_20180214T094513_C001 CS_OFFL_SIR_IOPM_2_20180214T094515_20180214T094513_C001 CS_OFFL_SIR_IOPM_2_20180214T094515_20180214T095410_C001 CS_OFFL_SIR_IOPM_2_20180214T094515_20180214T095941_C001 CS_OFFL_SIR_IOPM_2_20180214T094516_20180214T095941_C001 CS_OFFL_SIR_IOPM_2_20180214T095416_20180214T095941_C001 CS_OFFL_SIR_IOPM_2_20180214T095416_20180214T1095941_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T1095941_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T1095954_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T1095954_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T1095954_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T109130_C001 CS_OFFL_SIR_IOPM_2_20180214T1102403_20180214T109130_C001 CS_OFFL_SIR_IOPM_2_20180214T1102403_20180214T1114111_C001 COean Range Averaging Status 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 r	CS_OFFL_SIR_IOPM_2_20180214T072314_20180214T072510_C001	Ocean Range Averaging Status	records.
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CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T102313_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T102313_C001 CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T104109_C001 CS_OFFL_SIR_IOPM_2_20180214T1102403_20180214T104109_C001 CS_OFFL_SIR_IOPM_2_20180214T110246_20180214T111411_C001 CS_OFFL_SIR_IOPM_2_20180214T111615_20180214T1113200_C001 CS_OFFL_SIR_IOPM_2_20180214T111615_20180214T113200_C001 CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T1131046_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_20180214T1331046_C001 CS_OFFL_SIR_IOPM_2_20180214T133310_201	CS_OFFL_SIR_IOPM_2_20180214T095416_20180214T095941_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T10104S_20180214T104109_C001 CS_OFFL_SIR_IOPM_2_20180214T10246_20180214T111411_C001 CS_OFFL_SIR_IOPM_2_20180214T110246_20180214T111411_C001 CS_OFFL_SIR_IOPM_2_20180214T111615_20180214T113200_C001 CS_OFFL_SIR_IOPM_2_20180214T1113343_20180214T113200_C001 CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113558_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T1131046_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T13310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T131310_20180214T1	CS_OFFL_SIR_IOPM_2_20180214T095947_20180214T095954_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T110246_20180214T111411_C001 CS_OFFL_SIR_IOPM_2_20180214T1110246_20180214T111411_C001 CS_OFFL_SIR_IOPM_2_20180214T111615_20180214T113200_C001 CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T1131046_C001 CS_OFFL_SIR_IOPM_2_20180214T1131310_20180214T131310_C001 CS_OFFL_SIR_IOPM_2_20180214T1131310_20180214T131310_C001 CS_OFFL_SIR_IOPM_2_20180214T1131310_20180214T1313151_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131515_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131310_20180214T131515_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T1311046_C001 CS_OFFL_SIR_IOPM_2_20180214	CS_OFFL_SIR_IOPM_2_20180214T101045_20180214T102313_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T113200_C001 CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113200_C001 CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001	CS_OFFL_SIR_IOPM_2_20180214T102403_20180214T104109_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131551_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13150_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13100_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T13100_C001 CS	CS_OFFL_SIR_IOPM_2_20180214T110246_20180214T111411_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113910_C001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T1125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 Ice Range Averaging Status 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 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.	CS_OFFL_SIR_IOPM_2_20180214T111615_20180214T113200_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T11310_C001 CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001	CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001 CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001 CS_OFFL_SIR_IOPM_2_20180214T13110_00180214T13110_00180214T13110_00180214T13110_00180214T1310_00180214	CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201802141125536_201802141131046_C001 Ocean Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_IOPM_2_20180214T125536_20180214T131046_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPM_2_20180214T131310_20180214T131751_C001	Ice Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20180214T132355_20180214T135111_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T142504_20180214T145042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T145327_20180214T145705_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T145728_20180214T150054_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T150315_20180214T151624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T152054_20180214T153200_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T160404_20180214T162957_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T163124_20180214T163619_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T164302_20180214T165434_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T170008_20180214T171801_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T180311_20180214T180433_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T180632_20180214T180940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T181122_20180214T181650_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T182219_20180214T185617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T190945_20180214T191126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T192903_20180214T194829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T195043_20180214T195547_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T200109_20180214T203508_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T210030_20180214T212323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T213258_20180214T213451_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T214125_20180214T215649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T215711_20180214T215911_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T220353_20180214T221207_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T222700_20180214T222936_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T223109_20180214T224809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T225010_20180214T230435_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T231455_20180214T231903_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T232039_20180214T233616_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T233817_20180214T234740_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180214T005105_20180214T005132_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180214T114037_20180214T114306_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180214T122433_20180214T122643_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180214T162958_20180214T163124_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180214T190806_20180214T190906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180214T022721_20180214T023509_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180214T095942_20180214T095947_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180214T104744_20180214T105309_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180214T194830_20180214T194929_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180214T212651_20180214T213021_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.

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

Product	Test Failed	Description
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

		The lee Designation Asserting Claims Flor has been set for one or many
CS_OFFL_SIR_IOPM_2_20180214T014008_20180214T014853_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T015100_20180214T021509_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_IOPM_2_20180214T024210_20180214T031650_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_IOPM_2_20180214T032224_20180214T032646_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T032937_20180214T040314_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_IOPM_2_20180214T042340_20180214T043841_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_IOPM_2_20180214T044414_20180214T045556_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_IOPM_2_20180214T050137_20180214T050724_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T050847_20180214T051509_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180214T051756_20180214T052637_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_IOPM_2_20180214T060013_20180214T061105_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_IOPM_2_20180214T061115_20180214T063512_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180214T064043_20180214T064555_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_IOPM_2_20180214T064733_20180214T065041_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_IOPM_2_20180214T065228_20180214T070700_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180214T072314_20180214T072510_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_IOPM_2_20180214T072527_20180214T072551_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_IOPM_2_20180214T073954_20180214T074851_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_IOPM_2_20180214T075137_20180214T081352_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_IOPM_2_20180214T082049_20180214T082500_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T082710_20180214T084911_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_IOPM_2_20180214T085000_20180214T085426_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_IOPM_2_20180214T085752_20180214T090214_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_IOPM_2_20180214T092059_20180214T094513_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFL SIR IOPM 2 20180214T094515 20180214T095249 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180214T095416_20180214T095941_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_IOPM_2_20180214T095947_20180214T095954_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180214T100714_20180214T100730_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180214T101045_20180214T102313_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_IOFM_2_201802141101043_20180214110213_0001 CS_OFFL_SIR_IOFM_2_20180214T102403_20180214T104109_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_IOPM_2_20180214T110246_20180214T111411_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_IOPM_2_20180214T111615_20180214T113200_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180214T113343_20180214T113838_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T113858_20180214T113910_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180214T114734_20180214T115959_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_IOPM_2_20180214T125536_20180214T131046_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_IOPM_2_20180214T131310_20180214T131751_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T132355_20180214T135111_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_IOPM_2_20180214T142504_20180214T145042_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_IOPM_2_20180214T145327_20180214T145705_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T145728_20180214T150054_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T150315_20180214T151624_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_IOPM_2_20180214T152054_20180214T153200_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_IOPM_2_20180214T160404_20180214T162957_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180214T163124_20180214T163619_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_IOPM_2_20180214T163627_20180214T163955_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180214T164302_20180214T165434_C001	SWH Averaging Status, Ocean	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_IOPM_2_20180214T170008_20180214T171801_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_IOPM_2_20180214T180632_20180214T180940_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180214T181122_20180214T181650_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180214T182219_20180214T185617_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_IOPM_2_20180214T190945_20180214T191126_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_IOPM_2_20180214T192903_20180214T194829_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_IOPM_2_20180214T195043_20180214T195547_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T200109_20180214T203508_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_IOPM_2_20180214T210030_20180214T212323_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_IOPM_2_20180214T213258_20180214T213451_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T214125_20180214T215649_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_IOPM_2_20180214T215711_20180214T215911_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_IOPM_2_20180214T220353_20180214T221207_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_IOPM_2_20180214T222700_20180214T222936_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T223109_20180214T224809_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_IOPM_2_20180214T225010_20180214T230435_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_IOPM_2_20180214T231455_20180214T231903_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180214T232039_20180214T233616_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_IOPM_2_20180214T233817_20180214T234740_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_IOPN_2_20180214T005105_20180214T005132_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_IOPN_2_20180214T114037_20180214T114306_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_IOPN_2_20180214T122433_20180214T122643_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_IOPN_2_20180214T162958_20180214T163124_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180214T190806_20180214T190906_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_IOPR_2_20180214T022721_20180214T023509_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_IOPR_2_20180214T095942_20180214T095947_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180214T104744_20180214T105309_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_IOPR_2_20180214T194830_20180214T194929_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_IOPR_2_20180214T212651_20180214T213021_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

6. IOP 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).

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Number of products with errors: 0

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_IOP_220180214T122840_20180214T131816_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180213T231452_20180214T000427_C002	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T000427_20180214T005405_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T005405_20180214T014341_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T014341_20180214T023319_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_IOP_220180214T023319_20180214T032254_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T032254_20180214T041233_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_IOP_220180214T041233_20180214T050208_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T050208_20180214T055146_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_IOP_220180214T055146_20180214T064122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T064122_20180214T073100_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_IOP_220180214T073100_20180214T082035_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_IOP_220180214T082035_20180214T091013_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_IOP_220180214T091013_20180214T095949_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_IOP_220180214T095949_20180214T104927_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_IOP_220180214T104927_20180214T113902_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_IOP_220180214T113902_20180214T122840_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_IOP_220180214T122840_20180214T131816_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_IOP_220180214T131816_20180214T140754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T140754_20180214T145729_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_IOP_220180214T145729_20180214T154708_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T154708_20180214T163643_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_IOP_220180214T163643_20180214T172621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T172621_20180214T181557_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_IOP_220180214T181557_20180214T190535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T190535_20180214T195510_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T195510_20180214T204448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T204448_20180214T213424_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_IOP_220180214T213424_20180214T222402_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T222402_20180214T231337_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180213T231452_20180214T000427_C002	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T000427_20180214T005405_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_IOP_220180214T005405_20180214T014341_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_IOP_220180214T014341_20180214T023319_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_IOP_220180214T023319_20180214T032254_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_IOP_2_20180214T032254_20180214T041233_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_IOP_2_20180214T041233_20180214T050208_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_IOP_220180214T050208_20180214T055146_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_IOP_2_20180214T055146_20180214T064122_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_IOP_220180214T064122_20180214T073100_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_IOP_220180214T073100_20180214T082035_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_IOP_220180214T082035_20180214T091013_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_IOP_2_20180214T091013_20180214T095949_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_IOP_2_20180214T095949_20180214T104927_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_IOP_2_20180214T104927_20180214T113902_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_IOP_2_20180214T113902_20180214T122840_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_IOP_2_20180214T122840_20180214T131816_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_IOP_2_20180214T131816_20180214T140754_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_IOP_2_20180214T140754_20180214T145729_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_IOP_2_20180214T145729_20180214T154708_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_IOP_2_20180214T154708_20180214T163643_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_IOP_2_20180214T163643_20180214T172621_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_IOP_2_20180214T172621_20180214T181557_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_IOP_2_20180214T181557_20180214T190535_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_IOP_220180214T190535_20180214T195510_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_IOP_220180214T195510_20180214T204448_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_IOP_220180214T204448_20180214T213424_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_IOP_220180214T213424_20180214T222402_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_IOP_220180214T222402_20180214T231337_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180214T000427_20180214T005405_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T005405_20180214T014341_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T014341_20180214T023319_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T023319_20180214T032254_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T032254_20180214T041233_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T041233_20180214T050208_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T050208_20180214T055146_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T055146_20180214T064122_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T064122_20180214T073100_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T073100_20180214T082035_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T082035_20180214T091013_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T091013_20180214T095949_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T095949_20180214T104927_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T104927_20180214T113902_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T113902_20180214T122840_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180214T122840_20180214T131816_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180214T131816_20180214T140754_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T140754_20180214T145729_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T145729_20180214T154708_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T154708_20180214T163643_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T163643_20180214T172621_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T172621_20180214T181557_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T181557_20180214T190535_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T190535_20180214T195510_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T195510_20180214T204448_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T204448_20180214T213424_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T213424_20180214T222402_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180214T222402_20180214T231337_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.