

IDEAS+ Daily Report for IOP data:

<u>08/12/2017</u>



Ocean Retracking Quality Check See Section 5.8 See Section 6.8 sion / Instrument News -Dec-2017 None -Dec-2017 None					
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Autoling Correction Find Check Range. SWH & Backscatter Measurement Conference Data Check Range. SWH & Backscatter Measurement Check Corean Articuity Quality Check See Section 5.6.57 See Secti					
Massurement Contribution Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.0 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8 Sear Section 5.8					
Range. SWH & Backscatter Measurement Check See Section 5.8 / See Section 6.8 / See Section 6					
Ocean Retracking Quality Check See Section 8.8 USA-1000 USA-10000 USA-10000 USA-10000 USA-10000 USA-100000 USA-10000000 USA-100000000000 USA-1000000000000000000000000000000000000			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.
			Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
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3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

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SIRAL instrument(s) in use:

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:

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.
Number of products with errors:
0

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.

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0

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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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171208T040711_20171208T041420_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20171208T154137_20171208T155009_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171208T002742_20171208T002753_C001	Attitude correction missing	records The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T003203_20171208T003337_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T020654_20171208T020730_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T020733_20171208T020740_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T021121_20171208T021129_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T021142_20171208T021719_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T021719_20171208T021829_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T034552_20171208T034628_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T035159_20171208T035252_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171208T040353 20171208T040510 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T043922_20171208T044044_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T051603_20171208T051655_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T053021_20171208T0537005_2001	-	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_201712081053021_201712081053710_0001	Attitude correction missing Attitude correction missing	
	Ū.	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T054422_20171208T054431_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T063123_20171208T063250_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T071003_20171208T071153_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T071212_20171208T071736_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T075605_20171208T075951_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T083836_20171208T083916_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T084023_20171208T084217_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T084941_20171208T085032_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T090018_20171208T090042_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T094923_20171208T095233_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T095252_20171208T095451_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T101723_20171208T102037_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T102238_20171208T102414_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T102928_20171208T103856_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T103907_20171208T103946_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T105056_20171208T105342_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T114217_20171208T114404_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T120348_20171208T120501_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T121825_20171208T121829_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T130153_20171208T130159_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T134310_20171208T134314_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T134944_20171208T135525_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T135540_20171208T135706_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T135943_20171208T140021_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T140138_20171208T140217_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T140226_20171208T140227_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T140231_20171208T140236_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T141637_20171208T141816_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T143332_20171208T143405_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T144104_20171208T144110_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T144832_20171208T145015_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T150439_20171208T150651_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T151905_20171208T152252_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T152551_20171208T152646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T155010_20171208T155354_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T162630_20171208T162653_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T171314_20171208T171423_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T172738_20171208T172814_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_IOPR1B_20171208T172910_20171208T172948_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T175146_20171208T175314_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T184537_20171208T185011_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T185011_20171208T185533_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T193055_20171208T193156_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T194341_20171208T194633_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T195641_20171208T200218_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T202313_20171208T203049_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T204007_20171208T204205_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T212221_20171208T212547_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T220103_20171208T220854_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T220854_20171208T221017_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T221113_20171208T221203_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T233819_20171208T233952_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171208T234046_20171208T234106_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171208T141816_20171208T143332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171208T150651_20171208T151904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171208T025849_20171208T030440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171208T053710_20171208T054158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171208T071154_20171208T071212_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171208T134849_20171208T134944_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171208T152646_20171208T152858_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T011620_20171208T012319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T075605_20171208T075951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T093602_20171208T093940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T102928_20171208T103856_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T151905_20171208T152252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T185011_20171208T185533_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171208T212221_20171208T212547_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: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

2

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171208T040711_20171208T041420_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_20171208T154137_20171208T155009_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.

CS OFFL SIR IOPM 2 20171208T000054 20171208T002741 C001

Product

Test Failed

CS_OFFL_SIR_IOPM_2_20171208T004510_20171208T011619_C001 CS OFFL SIR IOPM 2 20171208T012554 20171208T012748 C001 CS_OFFL_SIR_IOPM_2_20171208T013442_20171208T015055_C001 CS OFFL SIR IOPM 2 20171208T015653 20171208T020352 C001 CS OFFL SIR IOPM 2 20171208T021950 20171208T022351 C001 CS_OFFL_SIR_IOPM_2_20171208T022517_20171208T024052_C001 CS_OFFL_SIR_IOPM_2_20171208T024711_20171208T025848_C001 CS OFFL SIR IOPM 2 20171208T030734 20171208T031157 C001 CS_OFFL_SIR_IOPM_2_20171208T031411_20171208T032840_C001 CS OFFL SIR IOPM 2 20171208T033020 20171208T034545 C001 CS OFFL SIR IOPM 2 20171208T040711 20171208T041420 C001 CS_OFFL_SIR_IOPM_2_20171208T041542_20171208T042030_C001 CS OFFL SIR IOPM 2 20171208T042327 20171208T043922 C001 CS OFFL SIR IOPM 2 20171208T044227 20171208T045106 C001 CS_OFFL_SIR_IOPM_2_20171208T045332_20171208T051603_C001 CS OFFL SIR IOPM 2 20171208T054431 20171208T061807 C001 CS_OFFL_SIR_IOPM_2_20171208T062143_20171208T062330_C001 CS OFFL SIR IOPM 2 20171208T062430 20171208T062903 C001 CS_OFFL_SIR_IOPM_2_20171208T063250_20171208T065735_C001 CS_OFFL_SIR_IOPM_2_20171208T072957_20171208T074047_C001 CS_OFFL_SIR_IOPM_2_20171208T074624_20171208T075605_C001 CS OFFL SIR IOPM 2 20171208T080346 20171208T080939 C001 CS_OFFL_SIR_IOPM_2_20171208T081211_20171208T083354_C001 CS_OFFL_SIR_IOPM_2_20171208T083401_20171208T083836_C001 CS OFFL SIR IOPM 2 20171208T084840 20171208T084941 C001 CS_OFFL_SIR_IOPM_2_20171208T090211_20171208T093601_C001 CS_OFFL_SIR_IOPM_2_20171208T094253_20171208T094810_C001 CS OFFL SIR IOPM 2 20171208T095451 20171208T095703 C001 CS_OFFL_SIR_IOPM_2_20171208T102542_20171208T102818_C001 CS OFFL SIR IOPM 2 20171208T104147 20171208T105056 C001 CS OFFL SIR IOPM 2 20171208T105342 20171208T111522 C001 CS_OFFL_SIR_IOPM_2_20171208T112136_20171208T112254_C001 CS_OFFL_SIR_IOPM_2_20171208T112302_20171208T112709_C001 CS OFFL SIR IOPM 2 20171208T113203 20171208T114216 C001 CS_OFFL_SIR_IOPM_2_20171208T114404_20171208T115113_C001 CS OFFL SIR IOPM 2 20171208T115157 20171208T115639 C001 CS_OFFL_SIR_IOPM_2_20171208T122117_20171208T125428_C001 CS_OFFL_SIR_IOPM_2_20171208T125636_20171208T130152_C001 CS OFFL SIR IOPM 2 20171208T131254 20171208T134310 C001 CS_OFFL_SIR_IOPM_2_20171208T134453_20171208T134849_C001 CS_OFFL_SIR_IOPM_2_20171208T140309_20171208T141612_C001 CS OFFL SIR IOPM 2 20171208T141816 20171208T143332 C001 CS_OFFL_SIR_IOPM_2_20171208T143547_20171208T144050_C001 CS_OFFL_SIR_IOPM_2_20171208T145015_20171208T150031_C001 CS_OFFL_SIR_IOPM_2_20171208T150651_20171208T151904_C001 CS_OFFL_SIR_IOPM_2_20171208T155354_20171208T155636_C001 CS OFFL SIR IOPM 2 20171208T155815 20171208T161232 C001 CS_OFFL_SIR_IOPM_2_20171208T161500_20171208T162000_C001 CS_OFFL_SIR_IOPM_2_20171208T162026_20171208T162035_C001

Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status

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CS_OFFL_SIR_IOPM_2_20171208T162043_20171208T162148_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T162653_20171208T170020_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T172948_20171208T175145_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T175545_20171208T175917_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T175939_20171208T180305_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T180603_20171208T183443_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T190558_20171208T193054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T193327_20171208T193831_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T193838_20171208T194206_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T194633_20171208T195640_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T200218_20171208T201944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T203325_20171208T203422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T210516_20171208T210916_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T211326_20171208T211903_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T212547_20171208T215840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T221203_20171208T221305_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T223133_20171208T224759_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T225248_20171208T225758_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T230419_20171208T233819_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T235212_20171208T235220_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171208T012748_20171208T013043_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171208T044044_20171208T044226_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171208T070919_20171208T071002_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171208T152646_20171208T152858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171208T013414_20171208T013442_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171208T081106_20171208T081211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171208T094923_20171208T095233_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171208T155010_20171208T155354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171208T161232_20171208T161307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171208T221040_20171208T221051_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. 78

N	lumber	of pro	ducts wi	th errors:	
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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171208T000054_20171208T002741_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_20171208T004510_20171208T011619_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_20171208T012554_20171208T012748_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T013442_20171208T015055_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_20171208T015653_20171208T020352_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_20171208T021950_20171208T022351_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T022517_20171208T024052_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_20171208T024711_20171208T025848_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_20171208T030440_20171208T030702_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T030734_20171208T031157_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T031411_20171208T032840_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_20171208T033020_20171208T034545_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_20171208T040711_20171208T041420_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_20171208T041542_20171208T042030_C001 CS OFFL SIR IOPM 2 20171208T042327 20171208T043922 C001 CS_OFFL_SIR_IOPM_2_20171208T044227_20171208T045106_C001 CS_OFFL_SIR_IOPM_2_20171208T045332_20171208T051603_C001 CS_OFFL_SIR_IOPM_2_20171208T054431_20171208T061807_C001 CS_OFFL_SIR_IOPM_2_20171208T062143_20171208T062330_C001 CS OFFL SIR IOPM 2 20171208T062430 20171208T062903 C001 CS OFFL SIR IOPM 2 20171208T063250 20171208T065735 C001 CS_OFFL_SIR_IOPM_2_20171208T072957_20171208T074047_C001 CS OFFL SIR IOPM 2 20171208T074624 20171208T075605 C001 CS_OFFL_SIR_IOPM_2_20171208T080346_20171208T080939_C001 CS_OFFL_SIR_IOPM_2_20171208T081211_20171208T083354_C001 CS OFFL SIR IOPM 2 20171208T083401 20171208T083836 C001 CS_OFFL_SIR_IOPM_2_20171208T084840_20171208T084941_C001 CS_OFFL_SIR_IOPM_2_20171208T090211_20171208T093601_C001 CS OFFL SIR IOPM 2 20171208T094253 20171208T094810 C001 CS_OFFL_SIR_IOPM_2_20171208T095451_20171208T095703_C001 CS_OFFL_SIR_IOPM_2_20171208T102542_20171208T102818_C001 CS_OFFL_SIR_IOPM_2_20171208T104147_20171208T105056_C001 CS_OFFL_SIR_IOPM_2_20171208T105342_20171208T111522_C001 CS_OFFL_SIR_IOPM_2_20171208T112136_20171208T112254_C001 CS OFFL SIR IOPM 2 20171208T112302 20171208T112709 C001 CS_OFFL_SIR_IOPM_2_20171208T113203_20171208T114216_C001 CS_OFFL_SIR_IOPM_2_20171208T114404_20171208T115113_C001 CS OFFL SIR IOPM 2 20171208T115157 20171208T115639 C001 CS OFFL SIR IOPM 2 20171208T122117 20171208T125428 C001 CS_OFFL_SIR_IOPM_2_20171208T125636_20171208T130152_C001 CS_OFFL_SIR_IOPM_2_20171208T131254_20171208T134310_C001 CS_OFFL_SIR_IOPM_2_20171208T134453_20171208T134849_C001 CS OFFL SIR IOPM 2 20171208T140309 20171208T141612 C001 CS_OFFL_SIR_IOPM_2_20171208T141816_20171208T143332_C001 CS_OFFL_SIR_IOPM_2_20171208T143547_20171208T144050_C001 CS_OFFL_SIR_IOPM_2_20171208T145015_20171208T150031_C001 CS_OFFL_SIR_IOPM_2_20171208T150651_20171208T151904_C001 CS_OFFL_SIR_IOPM_2_20171208T155354_20171208T155636_C001 CS OFFL SIR IOPM 2 20171208T155815 20171208T161232 C001 CS_OFFL_SIR_IOPM_2_20171208T161500_20171208T162000_C001 CS OFFL SIR IOPM 2 20171208T162026 20171208T162035 C001 CS OFFL SIR IOPM 2 20171208T162043 20171208T162148 C001 CS_OFFL_SIR_IOPM_2_20171208T162653_20171208T170020_C001 CS_OFFL_SIR_IOPM_2_20171208T172948_20171208T175145_C001 CS OFFL SIR IOPM 2 20171208T175545 20171208T175917 C001 CS_OFFL_SIR_IOPM_2_20171208T180603_20171208T183443_C001 CS_OFFL_SIR_IOPM_2_20171208T190558_20171208T193054_C001 CS_OFFL_SIR_IOPM_2_20171208T193327_20171208T193831_C001 CS_OFFL_SIR_IOPM_2_20171208T193838_20171208T194206_C001 CS OFFL SIR IOPM 2 20171208T194633 20171208T195640 C001 CS_OFFL_SIR_IOPM_2_20171208T200218_20171208T201944_C001 CS_OFFL_SIR_IOPM_2_20171208T210516_20171208T210916_C001 CS OFFL SIR IOPM 2 20171208T211326 20171208T211903 C001 CS_OFFL_SIR_IOPM_2_20171208T212547_20171208T215840_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

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Ice Backscatter Averaging Status

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more records. The SWH and Ocean Averaging Status Flags have been set for one or

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20171208T221203_20171208T221305_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_20171208T223133_20171208T224759_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_20171208T225248_20171208T225758_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171208T230419_20171208T233819_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_20171208T012748_20171208T013043_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171208T044044_20171208T044226_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171208T070919_20171208T071002_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_20171208T152646_20171208T152858_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_20171208T013414_20171208T013442_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_20171208T081106_20171208T081211_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_20171208T094923_20171208T095233_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_20171208T155010_20171208T155354_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_20171208T161232_20171208T161307_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_20171208T221040_20171208T221051_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 62

6. 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 er Number of products with errors: 0	sure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).	
6.2 P2P Product Header Analysis			
For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0	SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.	
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: 0			
6.4 P2P Auxiliary Correction Error Check			
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 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: 2			
Product	Test Failed	Description	
CS_OFFL_SIR_IOP_220171208T035612_20171208T044548_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

CS_OFFL_SIR_IOP_2__20171208T153047_20171208T162023_C001

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.

There is an error in the scaling of the L2 waveform for one or more records

Power scaling error

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. 25

Product	Test Failed	Description
 CS_OFFL_SIR_IOP_220171207T234807_20171208T003745_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T003745_20171208T012720_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_220171208T030634_20171208T035612_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_220171208T035612_20171208T044548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T044548_20171208T053525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T053525_20171208T062501_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T062501_20171208T071439_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_220171208T071439_20171208T080415_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220171208T080415_20171208T085353_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_220171208T085353_20171208T094328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T094328_20171208T103306_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_220171208T103306_20171208T112242_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T112242_20171208T121220_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_220171208T121220_20171208T130155_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_220171208T130155_20171208T135133_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_220171208T144109_20171208T153047_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T153047_20171208T162023_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_220171208T162023_20171208T171000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T171000_20171208T175936_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_220171208T175936_20171208T184914_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_220171208T184914_20171208T193850_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_220171208T202828_20171208T211804_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_220171208T211804_20171208T220741_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171208T220741_20171208T225717_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_2_20171208T225717_20171208T234655_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 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. 25

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171207T234807_20171208T003745_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_220171208T003745_20171208T012720_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_220171208T030634_20171208T035612_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_220171208T035612_20171208T044548_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_220171208T044548_20171208T053525_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_220171208T053525_20171208T062501_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171208T062501_20171208T071439_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_220171208T071439_20171208T080415_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_220171208T080415_20171208T085353_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_220171208T085353_20171208T094328_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_220171208T094328_20171208T103306_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_220171208T103306_20171208T112242_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_220171208T112242_20171208T121220_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_220171208T121220_20171208T130155_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_220171208T130155_20171208T135133_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_220171208T144109_20171208T153047_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_220171208T153047_20171208T162023_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_220171208T162023_20171208T171000_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_220171208T171000_20171208T175936_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_220171208T175936_20171208T184914_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_220171208T184914_20171208T193850_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_220171208T202828_20171208T211804_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_220171208T211804_20171208T220741_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_220171208T220741_20171208T225717_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_220171208T225717_20171208T234655_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	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.

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_220171207T234807_20171208T003745_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T003745_20171208T012720_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T030634_20171208T035612_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T035612_20171208T044548_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T044548_20171208T053525_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T053525_20171208T062501_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T062501_20171208T071439_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T071439_20171208T080415_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T080415_20171208T085353_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T085353_20171208T094328_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T094328_20171208T103306_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T103306_20171208T112242_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T112242_20171208T121220_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T121220_20171208T130155_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T130155_20171208T135133_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T144109_20171208T153047_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T153047_20171208T162023_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T162023_20171208T171000_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T175936_20171208T184914_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T184914_20171208T193850_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T202828_20171208T211804_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171208T211804_20171208T220741_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171208T220741_20171208T225717_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171208T225717_20171208T234655_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.