



1. Overview

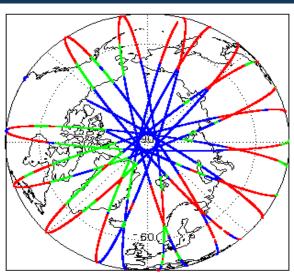
Dament Bundunting	40. 4 0040	
Report Production:	13-Aug-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

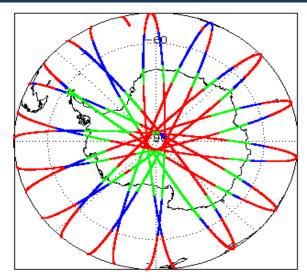
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

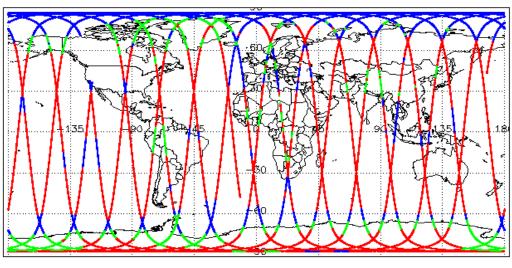
Mission / Instrument News		
08-Aug-2018	None	
09-Aug-2018	None	

10-Aug-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:

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180809T033251_20180809T034526_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180809T004400_20180809T011940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180809T034650_20180809T034907_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180809T113046_20180809T120640_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180809T131030_20180809T132523_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180809T141759_20180809T143217_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180809T202119_20180809T202543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T003611_20180809T003623_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T020912_20180809T021332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T031311_20180809T031442_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T035001_20180809T035158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T035202_20180809T035427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T084542_20180809T084701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T103555_20180809T103656_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T143514_20180809T143942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T153240_20180809T153344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T153423_20180809T153508_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T171153_20180809T171432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180809T234246_20180809T234538_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).

lumber of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

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_20180809T033251_20180809T034526_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180808T235749_20180809T003032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T003032_20180809T003145_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T004400_20180809T011940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T012208_20180809T012731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T013839_20180809T015104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T015224_20180809T020911_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T023053_20180809T024202_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180809T024405 20180809T025842 C001	Ocean Range Averaging Status	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
CS_OFFL_SIR_IOPM_2_20180809T030135_20180809T030630_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T031602_20180809T031952_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T033251_20180809T034526_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T034650_20180809T034907_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T042319_20180809T043733_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T044109_20180809T044558_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180809T045328_20180809T051519_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T051522_20180809T051853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T055224_20180809T061627_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T062108_20180809T062457_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T063217_20180809T064314_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T064845_20180809T065838_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T072959_20180809T075553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T075922_20180809T080411_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T080416_20180809T080746_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T081232_20180809T082229_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T082509_20180809T084542_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180809T085707 20180809T090112 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T093914_20180809T094439_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T095145_20180809T101242_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T101528_20180809T102651_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180809T103656 20180809T104021 C001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T105642_20180809T111326_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T111840_20180809T112337_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T113046_20180809T120640_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T121707_20180809T121759_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T122745_20180809T125114_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180809T130049_20180809T130242_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T131030_20180809T132523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T133144_20180809T134600_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T135915_20180809T141544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T141759_20180809T143217_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T143942_20180809T144154_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T144239_20180809T144656_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T144921_20180809T150332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T150543_20180809T151525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T153907_20180809T155048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T155053_20180809T155344_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T155956_20180809T161313_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T161735_20180809T162557_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
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CB_OFF_SR_OPW_2_D180009171074_D18000917309_C001 Ocean Range Averaging Status No. OFF_SR_OPM_2_D180009173793_D18000917309_C001 Ocean Range Averaging Status No. Ocean Range A	CS_OFFL_SIR_IOPM_2_20180809T162918_20180809T164527_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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CS_OFFL_SR_IOPM_2_20180809719381_20180809719319_0001 Oscen Range Averaging Status The Oscen Range Averagin	CS_OFFL_SIR_IOPM_2_20180809T184528_20180809T184608_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_LOPM_2_201808097120814_201808097120415_C001 CS_OFFL_SIR_LOPM_2_201808097120119_201808097120543_C001 CS_OFFL_SIR_LOPM_2_201808097120119_201808097120543_C001 CS_OFFL_SIR_LOPM_2_2018080971201719_2018080971201102_C001 CS_OFFL_SIR_LOPM_2_2018080971201719_2018080971201012_C001 CS_OFFL_SIR_LOPM_2_2018080971201719_201808097121012_C001 CS_OFFL_SIR_LOPM_2_2018080971201772_D01808097121012_C001 CS_OFFL_SIR_LOPM_2_2018080971201772_D01808097120107_C001 CS_OFFL_SIR_LOPM_2_2018080971201772_D01808097120107_C001 CS_OFFL_SIR_LOPM_2_201808097120107_Z01808097120405_C001 CS_OFFL_SIR_LOPM_2_201808097120107_Z01808097120405_C001 CS_OFFL_SIR_LOPM_2_201808097120107_Z01808097120405_C001 CS_OFFL_SIR_LOPM_2_201808097120107_Z01808097120405_C001 CS_OFFL_SIR_LOPM_2_201808097120107_Z01808097120405_C001 CS_OFFL_SIR_LOPM_2_201808097120107_Z01808097120007_C001808097_C00180809	CS_OFFL_SIR_IOPM_2_20180809T190544_20180809T191539_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808087194754_20180809720545_C001 CS_OFFL_SIR_IOPM_2_2018080871219_0180809720545_C001 CS_OFFL_SIR_IOPM_2_2018080972071748_20180809720545_C001 CS_OFFL_SIR_IOPM_2_2018080972071748_20180809720545_C001 CS_OFFL_SIR_IOPM_2_2018080972071748_20180809720545_C001 CS_OFFL_SIR_IOPM_2_201808097207373_20180809720545_C001 CS_OFFL_SIR_IOPM_2_201808097207373_20180809720545_C001 CS_OFFL_SIR_IOPM_2_20180809720809720809720945_C001 CS_OFFL_SIR_IOPM_2_20180809720809720945_C001 CS_OFFL_SIR_IOPM_2_20180809720809720945_C001 CS_OFFL_SIR_IOPM_2_2018080972080972093097094_C0018099720945_C001 CS_OFFL_SIR_IOPM_2_2018080972080972093097094 CS_OFFL_SIR_IOPM_2_2018080972080972095_C001 CS_OFFL_SIR_IOPM_2_2018080972080972095_C001 CS_OFFL_SIR_IOPM_2_2018080972080972095_C001 CS_OFFL_SIR_IOPM_2_2018080972095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_SIR_IOPM_2_20180809702095_C001 CS_OFFL_	CS_OFFL_SIR_IOPM_2_20180809T192118_20180809T193116_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180809720373_201808097223106_C001 CS_OFFL_SIR_IOPM_2_20180809720373_201808097213106_C001 CS_OFFL_SIR_IOPM_2_20180809720373_201808097213106_C001 CS_OFFL_SIR_IOPM_2_20180809722371_201808097213106_C001 CS_OFFL_SIR_IOPM_2_20180809722373_201808097223106_C001 CS_OFFL_SIR_IOPM_2_20180809722373_20180809722348_C001 CS_OFFL_SIR_IOPM_2_20180809722373_20180809722348_C001 CS_OFFL_SIR_IOPM_2_20180809722373_20180809722348_C001 CS_OFFL_SIR_IOPM_2_20180809722334_20180809722348_C001 CS_OFFL_SIR_IOPM_2_20180809722373_20180809722376_C001 CS_OFFL_SIR_IOPM_2_201808097223756_D0180809723708_C001 CS_OFFL_SIR_IOPM_2_201808097223756_C00180809723708_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809723750_C001 CS_OFFL_SIR_IOPM_2_20180809723373_201808097023250_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809702353_C001 CS_OFFL_SIR_IOPM_2_20180809723373_20180809702355_C001 CS_OFFL_SIR_IOPM_2_201808097023373_20180809702355_C001 CS_OFFL_SIR_IOPM_2_201808097023373_20180809702355_C001 CS_OFFL_SIR_IOPM_2_201808097023373_20180809703535_C001 CS_OFFL_SIR_IOPM_2_201808097023372_0180809703535_C001 CS_OFFL_SIR_IOPM_2_201808097023372_0180809703535_C001 CS_OFFL_SIR_IOPM_2_201808097035342_C001 CS_OFFL_SIR_IOPM	CS_OFFL_SIR_IOPM_2_20180809T193841_20180809T194439_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_2018080917230731_2018080917220500 CS_OFFL_SIR_IOPM_2_20180809172107_2018080917213105_C001 CS_OFFL_SIR_IOPM_2_20180809172107_2018080917213105_C001 CS_OFFL_SIR_IOPM_2_201808091721657_2018080917213105_C001 CS_OFFL_SIR_IOPM_2_201808091721657_2018080917213105_C001 CS_OFFL_SIR_IOPM_2_201808091721657_2018080917220455_C001 CS_OFFL_SIR_IOPM_2_201808091721657_2018080917220455_C001 CS_OFFL_SIR_IOPM_2_201808091722053_2018080917220545_C001 CS_OFFL_SIR_IOPM_2_2018080917220545_C001 CS_OFFL_SIR_IOPM_2_2018080917220545_C001 CS_OFFL_SIR_IOPM_2_2018080917220545_C001 CS_OFFL_SIR_IOPM_2_2018080917220545_C001 CS_OFFL_SIR_IOPM_2_2018080917220545_C001 CS_OFFL_SIR_IOPM_2_2018080917220542_C001 CS_OFFL_SIR_IOPM_2_201808091723052_C001 CS_OFFL_SIR_IOPM_2_201808091723053_C001 CS_OFFL_SIR_IOPM_2_201808091720555_C001 CS_OFFL_SIR_IOPM_2_201808091720554_D01808091053052_C001 CS_OFFL_SIR_IOPM_2_201808091720554_D01808091053052_C001 CS_OFFL_SIR_IOPM_2_201808091720554_D01808091053052_C001 CS_OFFL_SIR_IOPM_2_201808091720554_D01808091053055_C001 CS_OFFL_SIR_IOPM_2_201808091720554_D018080	CS_OFFL_SIR_IOPM_2_20180809T194754_20180809T201504_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808097121748_2018080971213105_C001 CS_OFFL_SIR_IOPM_2_201808097121748_201808097123105_C001 CS_OFFL_SIR_IOPM_2_201808097121057_201808097123105_C001 CS_OFFL_SIR_IOPM_2_2018080971221657_201808097123105_C001 CS_OFFL_SIR_IOPM_2_2018080971221633_2018080971223455_C001 CS_OFFL_SIR_IOPM_2_2018080971221633_201808097122348_L0001 CS_OFFL_SIR_IOPM_2_201808097122548_L001808097123495_C001 CS_OFFL_SIR_IOPM_2_201808097122548_L001808097123495_C001 CS_OFFL_SIR_IOPM_2_201808097122548_L001808097123495_C001 CS_OFFL_SIR_IOPM_2_201808097122554_L001808097123003_C001 CS_OFFL_SIR_IOPM_2_201808097123003_C001 CS_OFFL_SIR_IOPM_2_201808097102005_C01808097102005_C001 CS_OFFL_SIR_IOPM_2_201808097102005_C01808097102005_C001 CS_OFFL_SIR_IOPM_2_201808097102005_C01808097102005_C001 CS_OFFL_SIR_IOPM_2_201808097102005_C01808097102005_C001 CS_OFFL_SIR_IOPM_2_201808097102005_C01808097102005_C001 CS_OFFL_SIR_IOPM_2_2018080971008097100000700000700000700000700000700000000	CS_OFFL_SIR_IOPM_2_20180809T202119_20180809T202543_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808097121857_201808097122055_C001 CS_OFFL_SIR_IOPM_2_2018080971221637_201808097122055_C001 CS_OFFL_SIR_IOPM_2_2018080971221833_201808097122255_C001 CS_OFFL_SIR_IOPM_2_2018080971222334_201808097122455_C001 CS_OFFL_SIR_IOPM_2_201808097122363_201808097122455_C001 CS_OFFL_SIR_IOPM_2_2018080971223642_201808097122455_C001 CS_OFFL_SIR_IOPM_2_2018080971225756_2018080971225755_C001 CS_OFFL_SIR_IOPM_2_2018080971225756_2018080971230728_2018080	CS_OFFL_SIR_IOPM_2_20180809T203731_20180809T211012_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808097220157_201908097122015COOT CS_OFFL_SIR_IOPM_2_20180809722253225COOT CS_OFFL_SIR_IOPM_2_20180809722253225COOT CS_OFFL_SIR_IOPM_2_20180809722253225COOT CS_OFFL_SIR_IOPM_2_2018080972225322COOT CS_OFFL_SIR_IOPM_2_201808097225542_20180809722005COOT CS_OFFL_SIR_IOPM_2_201808097225542_20180809722005COOT CS_OFFL_SIR_IOPM_2_201808097225552_0180809722005COOT CS_OFFL_SIR_IOPM_2_2018080972230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097230726_201808097230720COOT CS_OFFL_SIR_IOPM_2_201808097022055_201808097022155_COOT CS_OFFL_SIR_IOPM_2_201808097022055_201808097022055_COOT CS_OFFL_SIR_IOPM_2_2018080971380542_201808097023055_COOT CS_OFFL_SIR_IOPM_2_2018080971380542_201808097023055_COOT CS_OFFL_SIR_IOPM_2_201808097138405_201808097023055_COOT CCS_OFFL_SIR_IOPM_2_201808097138405_20180809703055_COOT CCS_OFFL_SIR_IOPM_2_201808097134062_20180809703055_COOT CCS_OFFL_SIR_IOPM_2_201808097134062_201808097053755_COOT CCS_OFFL_SIR_IOPM_2_201808097134062_201808097053755_COOT CCS_OFFL_SIR_IOPM_2_201808097134062_201808097053755_COOT CCS_OFFL_SIR_IOPM_2_20180809713408097053745_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCS_OFFL_SIR_IOPM_2_2018080971340642_COOT CCS_OFFL_SIR_IOPM_2_2018080971340642_COOT CCS_OFFL_SIR_IOPM_2_2018080971340642_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCS_OFFL_SIR_IOPM_2_201808097134080970537455_COOT CCCC_OFFL_SIR_IOPM_2_2018080971340809705375	CS_OFFL_SIR_IOPM_2_20180809T211748_20180809T212310_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_2018080971221832_2018080971224561_C001 CS_OFFL_SIR_IOPM_2_2018080971221832_2018080971224561_C001 CS_OFFL_SIR_IOPM_2_2018080971222834_2018080971224561_C001 CS_OFFL_SIR_IOPM_2_201808097122562_2018080971225751_C001 Ice Range Averaging Status Ice Range Averaging Status CS_OFFL_SIR_IOPM_2_2018080971225675_2018080971225751_C001 Ice Range Averaging Status Ice Can Range Averaging Status Ice	CS_OFFL_SIR_IOPM_2_20180809T212657_20180809T213105_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808097122834_201808097222834_20180809722835_1_CO01 CS_OFFL_SIR_IOPM_2_20180809722836_201808097228751_CO01 CS_OFFL_SIR_IOPM_2_201808097228756_201808097230203_CO01 CS_OFFL_SIR_IOPM_2_20180809723766_20180809723076_CO01 CS_OFFL_SIR_IOPM_2_20180809723766_20180809723076_CO01 CS_OFFL_SIR_IOPM_2_20180809723766_201808097230760_CO01 CS_OFFL_SIR_IOPM_2_20180809723766_201808097230760_CO01 CS_OFFL_SIR_IOPM_2_201808097237865_201808097230760_CO01 CS_OFFL_SIR_IOPM_2_201808097237865_201808097230760_CO01 CS_OFFL_SIR_IOPM_2_201808097237865_201808097232453_CO01 CS_OFFL_SIR_IOPM_2_201808097235328_201808017002832_CO01 CS_OFFL_SIR_IOPM_2_201808097235328_201808097022125_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022125_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_201808097022837_201808097022053_CO01 CS_OFFL_SIR_IOPM_2_20180809718465_201808097184706_CO01 CS_OFFL_SIR_IOPM_2_201808097184645_2018080971831_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_201808097053755_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_201808097053755_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_201808097053755_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_20180809708044_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_20180809708044_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_20180809708044_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_2018080971831_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_2018080971831_CO01 CS_OFFL_SIR_IOPM_2_201808097053249_20180809708044_CO01 COEAN 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 Ave	CS_OFFL_SIR_IOPM_2_20180809T220107_20180809T220455_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPR_2_20180809T070941_20180809T071831_C001 CS_OFFL_SIR_IOPR_2_20180809T070941_20180809T071831_C001 CS_OFFL_SIR_IOPR_2_20180809T092815_20180809T093044_C001 CS_OFFL_SIR_IOPR_2_20180809T121326_20180809T121706_C001 CS_OFFL_SIR_IOPR_2_20180809T121326_20180809T121706_C001 CS_OFFL_SIR_IOPR_2_20180809T180809T180809T180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T180809T180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T180809T180809T180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184648_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184648_C001 CCS_OFFL_SIR_IOPR_2_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184644_C001	CS_OFFL_SIR_IOPR_2_20180809T011940_20180809T012041_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20180809T192815_20180809T193044_C001 CS_OFFL_SIR_IOPR_2_20180809T121326_20180809T121706_C001 CS_OFFL_SIR_IOPR_2_20180809T180642_20180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T180642_20180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T180642_20180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184688_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184688_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184688_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184688_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184688_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T184688_20180809T184644_C001 CCS_OFFL_SIR_IOPR_2_20180809T	CS_OFFL_SIR_IOPR_2_20180809T053249_20180809T053755_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20180809T121326_20180809T121706_C001 CS_OFFL_SIR_IOPR_2_20180809T121326_20180809T121706_C001 CS_OFFL_SIR_IOPR_2_20180809T180642_20180809T180911_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184644_C001 CS_OFFL_SI	CS_OFFL_SIR_IOPR_2_20180809T070941_20180809T071831_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184644_C001 CS_OFFL_SI	CS_OFFL_SIR_IOPR_2_20180809T092815_20180809T093044_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPR_2_20180809T121326_20180809T121706_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_201006091104000_2010060911040044_C001 CS_OFFL_SIR_IOPR_2_201808097234156_201808097234245_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20180809T180642_20180809T180911_C001	Ocean Range Averaging Status	
CS OFFE SIR TOPR 2 201808091234166 201808091234245 CD01 TOCEAN RANGE AVERAGING STATUS	CS_OFFL_SIR_IOPR_2_20180809T184608_20180809T184644_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20180809T234156_20180809T234245_C001	Ocean Range Averaging Status	

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
	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_20180809T003032_20180809T003145_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_20180809T004400_20180809T011940_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_20180809T012208_20180809T012731_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has 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.
CS_OFFL_SIR_IOPM_2_20180809T015224_20180809T020911_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

	SIAU I Averaging Status Occas	The CM// Land Ocean Averaging Clatus Flags have been get for one or
CS_OFFL_SIR_IOPM_2_20180809T023053_20180809T024202_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_20180809T024405_20180809T025842_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_20180809T030135_20180809T030630_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T031602_20180809T031952_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_20180809T033251_20180809T034526_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180809T034650_20180809T034907_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 20180809T042319 20180809T043733 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T044109_20180809T044558_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_20180809T045328_20180809T051519_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180809T051522_20180809T051853_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_20180809T055224_20180809T061627_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_20180809T062108_20180809T062457_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T062518_20180809T062844_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T063217_20180809T064314_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_20180809T064845_20180809T065838_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180809T072959_20180809T075553_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 Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T075922_20180809T080411_C001		records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T080416_20180809T080746_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records.
CS_OFFL_SIR_IOPM_2_20180809T081232_20180809T082229_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T082509_20180809T084542_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_20180809T085707_20180809T090112_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_20180809T093914_20180809T094439_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T095145_20180809T101242_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_20180809T101528_20180809T102651_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180809T103656_20180809T104021_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_20180809T105642_20180809T111326_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180809T111840_20180809T112337_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_20180809T113046_20180809T120640_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_20180809T121707_20180809T121759_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180809T122745_20180809T125114_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_20180809T130049_20180809T130242_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T131030_20180809T132523_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_20180809T133144_20180809T134600_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_20180809T135444_20180809T135737_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T135915_20180809T141544_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_20180809T141759_20180809T143217_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180809T143942_20180809T144154_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	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
CS_OFFL_SIR_IOPM_2_20180809T144239_20180809T144656_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_20180809T144921_20180809T150332_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_20180809T150543_20180809T151525_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.
CS_OFFL_SIR_IOPM_2_20180809T153907_20180809T155048_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T155956_20180809T161313_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_20180809T161735_20180809T162557_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T162918_20180809T164527_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_20180809T164545_20180809T165058_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_20180809T172703_20180809T173009_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_20180809T173014_20180809T175257_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180809T175634_20180809T175832_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 20180809T175920 20180809T180416 C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180809T180911_20180809T183251_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_20180809T184528_20180809T184608_C001	Backscatter Averaging Status	more records.

CS_OFFL_SIR_IOPM_2_20180809T190544_20180809T191539_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_20180809T192118_20180809T193116_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_20180809T193841_20180809T194439_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T194754_20180809T201504_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_20180809T202119_20180809T202543_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_20180809T203731_20180809T211012_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_20180809T211748_20180809T212310_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T220107_20180809T220455_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_20180809T221633_20180809T222548_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_20180809T222834_20180809T224951_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_20180809T225642_20180809T225751_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T225756_20180809T230203_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180809T230726_20180809T231708_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_20180809T231855_20180809T232453_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_20180809T235328_20180810T002832_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_20180809T022055_20180809T022125_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_20180809T022837_20180809T023053_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_20180809T062844_20180809T063022_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_20180809T184645_20180809T184706_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_20180809T011940_20180809T012041_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_20180809T053249_20180809T053755_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_20180809T070941_20180809T071831_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_20180809T092815_20180809T093044_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_20180809T121326_20180809T121706_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_20180809T180642_20180809T180911_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_20180809T184608_20180809T184644_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_20180809T234156_20180809T234245_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:

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_220180809T030652_20180809T035626_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

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

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

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

Number of products with errors: 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180808T234825_20180809T003759_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T003759_20180809T012739_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_220180809T012739_20180809T021713_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_220180809T021713_20180809T030652_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_220180809T030652_20180809T035626_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_220180809T035626_20180809T044606_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_220180809T044606_20180809T053540_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T053540_20180809T062520_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_220180809T062520_20180809T071454_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_20180809T071454_20180809T080433_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_220180809T080433_20180809T085407_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T085407_20180809T094347_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_220180809T094347_20180809T103321_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_220180809T103321_20180809T112300_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T112300_20180809T121234_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_220180809T121234_20180809T130214_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T130214_20180809T135148_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T135148_20180809T144127_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T144127_20180809T153102_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_220180809T153102_20180809T162041_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T162041_20180809T171015_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_220180809T171015_20180809T175955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T175955_20180809T184929_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_220180809T184929_20180809T193908_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T193908_20180809T202842_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_220180809T202842_20180809T211822_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T211822_20180809T220756_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_220180809T220756_20180809T225736_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_20180809T225736_20180809T234710_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_20180809T234710_20180810T003649_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180808T234825_20180809T003759_C002		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180809T003759_20180809T012739_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_20180809T012739_20180809T021713_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_20180809T021713_20180809T030652_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_20180809T030652_20180809T035626_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_20180809T035626_20180809T044606_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.

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CS_OFFL_SIR_IOP_220180809T044606_20180809T053540_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_220180809T053540_20180809T062520_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_20180809T062520_20180809T071454_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_20180809T071454_20180809T080433_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_20180809T080433_20180809T085407_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_20180809T085407_20180809T094347_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_20180809T094347_20180809T103321_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_20180809T103321_20180809T112300_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_20180809T112300_20180809T121234_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_20180809T121234_20180809T130214_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_20180809T130214_20180809T135148_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_20180809T135148_20180809T144127_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_20180809T144127_20180809T153102_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_20180809T153102_20180809T162041_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_20180809T162041_20180809T171015_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_20180809T171015_20180809T175955_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_20180809T175955_20180809T184929_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_20180809T184929_20180809T193908_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_20180809T193908_20180809T202842_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_20180809T202842_20180809T211822_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_20180809T211822_20180809T220756_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_20180809T220756_20180809T225736_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_20180809T225736_20180809T234710_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_220180809T234710_20180810T003649_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_220180808T234825_20180809T003759_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T003759_20180809T012739_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T012739_20180809T021713_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T021713_20180809T030652_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T030652_20180809T035626_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T044606_20180809T053540_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T053540_20180809T062520_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T062520_20180809T071454_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T071454_20180809T080433_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T080433_20180809T085407_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T085407_20180809T094347_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T094347_20180809T103321_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180809T103321_20180809T112300_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T112300_20180809T121234_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T121234_20180809T130214_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T130214_20180809T135148_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T135148_20180809T144127_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T144127_20180809T153102_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T153102_20180809T162041_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T162041_20180809T171015_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T171015_20180809T175955_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T175955_20180809T184929_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T184929_20180809T193908_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T193908_20180809T202842_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T202842_20180809T211822_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T211822_20180809T220756_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180809T220756_20180809T225736_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180809T225736_20180809T234710_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.