

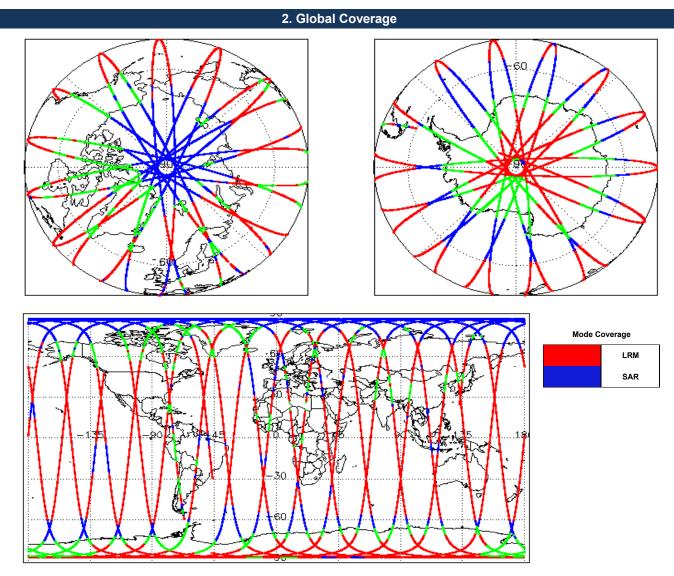
IDEAS+ Daily Report for IOP data:

23/09/2018

1. Overview				
		Check	L1 & L2	P2P
Report Production:	26-Sep-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Drasses ar Llaadi		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	Nominal	Nominal
1		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
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instrument News 22-Sep-2018 None 23-Sep-2018 None





3. Instrument Configuration

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

SIRAL instrument(s) in use:

:: SIRAL - A

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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 De	escriptors 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			
4.4 L1B Auxiliary Correction Erro	or 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:	0			
4.5 L1B Measurement Confidence	e Data Check			
CryoSat L1B data includes a measurement conf	dence flag for each measurement record. The bit value of this flag indicates any problems when set.			
Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.				
Number of products with errors:	2			

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180923T022918_20180923T023233_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180923T030902_20180923T034226_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180923T114142_20180923T115359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180923T140611_20180923T142849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180923T185241_20180923T192554_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180923T220915_20180923T224402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180923T184049_20180923T184146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180923T185123_20180923T185240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180923T215705_20180923T220114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180923T233917_20180923T234015_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T020950_20180923T021709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T025242_20180923T025426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T034813_20180923T035244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T052505_20180923T053244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T074903_20180923T075326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T184146_20180923T184936_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T193946_20180923T194517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T231550_20180923T231613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180923T234016_20180923T234550_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: 0

5.4 L2 Auxiliary Correction Error Che	ck			
For all products, the auxiliary corrections within the Geo	physical Group are checked for the default error value (32767).			
Number of products with errors:	0			
5.5 L2 Measurement Confidence Data	Check			
CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.				
Number of products with errors:	2			

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180923T022918_20180923T023233_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_20180923T030902_20180923T034226_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. 88

Number of products with errors:

Pro de d	To a Falled	Presentetter
	Test Failed	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180922T235340_20180923T000638_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180923T000852_20180923T002822_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180923T004817_20180923T005842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T010022_20180923T011359_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T011709_20180923T012212_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T013043_20180923T013141_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T013923_20180923T014240_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T014949_20180923T015230_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T015353_20180923T020104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T020227_20180923T020437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T023244_20180923T025241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T025721_20180923T030128_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180923T030902 20180923T034226 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180923T040821_20180923T043143_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_20180923T043517_20180923T044042_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180923T044048_20180923T044413_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180923T044758_20180923T045841_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180923T050419_20180923T051958_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T053359_20180923T053430_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T053553_20180923T054100_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T054403_20180923T060502_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T060705_20180923T061109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T061515_20180923T062321_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T062846_20180923T070042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T071242_20180923T071459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T074359_20180923T074902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T075451_20180923T080008_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T080725_20180923T082820_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOPM 2 20180923T083105 20180923T084232 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180923T085154 20180923T085642 C001	Ocean Range Averaging Status	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 20180923T091902 20180923T092853 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_20180923T093613_20180923T093908_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180923T094632_20180923T102230_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180923T103354_20180923T103440_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180923T103528_20180923T104219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T104233_20180923T110646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T112041_20180923T112303_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T112547_20180923T114138_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T114142_20180923T115359_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T121538_20180923T123122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T124004_20180923T124833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T125501_20180923T125731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180923T125756_20180923T130221_C001	Ice Range Averaging Status	The Ice 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
		records.

CS_OFFL_SIR_IOPM_2_20180923T135053_20180923T135140_C001 CS OFFL SIR IOPM 2 20180923T140054 20180923T140448 C001 CS_OFFL_SIR_IOPM_2_20180923T140611_20180923T142849_C001 CS_OFFL_SIR_IOPM_2_20180923T143244_20180923T144135_C001 CS OFFL SIR IOPM 2 20180923T144504 20180923T150735 C001 CS_OFFL_SIR_IOPM_2_20180923T153447_20180923T160823_C001 CS OFFL SIR IOPM 2 20180923T161459 20180923T161924 C001 CS OFFL SIR IOPM 2 20180923T162432 20180923T165028 C001 CS_OFFL_SIR_IOPM_2_20180923T165605_20180923T170204_C001 CS_OFFL_SIR_IOPM_2_20180923T171639_20180923T173117_C001 CS OFFL SIR IOPM 2 20180923T173652 20180923T174621 C001 CS_OFFL_SIR_IOPM_2_20180923T175414_20180923T180002_C001 CS OFFL SIR IOPM 2 20180923T180328 20180923T181706 C001 CS_OFFL_SIR_IOPM_2_20180923T185241_20180923T192554_C001 CS_OFFL_SIR_IOPM_2_20180923T193319_20180923T193833_C001 CS OFFL SIR IOPM 2 20180923T194517 20180923T194843 C001 CS_OFFL_SIR_IOPM_2_20180923T194944_20180923T195511_C001 CS_OFFL_SIR_IOPM_2_20180923T195514_20180923T195702_C001 CS_OFFL_SIR_IOPM_2_20180923T201550_20180923T202005_C001 CS_OFFL_SIR_IOPM_2_20180923T202846_20180923T202939_C001 CS_OFFL_SIR_IOPM_2_20180923T203000_20180923T204126_C001 CS OFFL SIR IOPM 2 20180923T204412 20180923T210515 C001 CS_OFFL_SIR_IOPM_2_20180923T211153_20180923T211320_C001 CS OFFL SIR IOPM 2 20180923T211327 20180923T211735 C001 CS OFFL SIR IOPM 2 20180923T212250 20180923T213242 C001 CS OFFL SIR IOPM 2 20180923T213430 20180923T214148 C001 CS_OFFL_SIR_IOPM_2_20180923T214244_20180923T214650_C001 CS_OFFL_SIR_IOPM_2_20180923T215410_20180923T215431_C001 CS_OFFL_SIR_IOPM_2_20180923T220915_20180923T224402_C001 CS OFFL SIR IOPM 2 20180923T224651 20180923T225218 C001 CS_OFFL_SIR_IOPM_2_20180923T225224_20180923T225231_C001 CS_OFFL_SIR_IOPM_2_20180923T225238_20180923T225511_C001 CS OFFL SIR IOPM 2 20180923T230320 20180923T231550 C001 CS_OFFL_SIR_IOPM_2_20180923T231614_20180923T233338_C001 CS_OFFL_SIR_IOPM_2_20180923T235505_20180924T000644_C001 CS OFFL SIR IOPN 2 20180923T020105 20180923T020227 C001 CS_OFFL_SIR_IOPN_2_20180923T020438_20180923T020950_C001 CS OFFL SIR IOPN 2 20180923T043403 20180923T043516 C001 CS OFFL SIR IOPN 2 20180923T125731 20180923T125756 C001 CS_OFFL_SIR_IOPN_2_20180923T193834_20180923T193945_C001 CS_OFFL_SIR_IOPR_2_20180923T053312_20180923T053359_C001 CS OFFL SIR IOPR 2 20180923T160824 20180923T161044 C001 CS_OFFL_SIR_IOPR_2_20180923T215655_20180923T215705_C001

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

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 ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords 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.

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 CS_OFFL_SIR_IOPM_2_20180922T235340_20180923T000638_C001 CS OFFL SIR IOPM 2 20180923T000852 20180923T002822 C001 CS_OFFL_SIR_IOPM_2_20180923T004817_20180923T005842_C001 CS OFFL SIR IOPM 2 20180923T010022 20180923T011359 C001 CS OFFL SIR IOPM 2 20180923T011709 20180923T012212 C001 CS_OFFL_SIR_IOPM_2_20180923T013043_20180923T013141_C001 CS OFFL SIR IOPM 2 20180923T013923 20180923T014240 C001 CS_OFFL_SIR_IOPM_2_20180923T014949_20180923T015230_C001 CS_OFFL_SIR_IOPM_2_20180923T015353_20180923T020104_C001 CS OFFL SIR IOPM 2 20180923T020227 20180923T020437 C001 CS_OFFL_SIR_IOPM_2_20180923T023244_20180923T025241_C001 CS_OFFL_SIR_IOPM_2_20180923T025721_20180923T030128_C001 CS OFFL SIR IOPM 2 20180923T030902 20180923T034226 C001 CS_OFFL_SIR_IOPM_2_20180923T040821_20180923T043143_C001 CS OFFL SIR IOPM 2 20180923T043517 20180923T044042 C001 CS_OFFL_SIR_IOPM_2_20180923T044048_20180923T044413_C001 CS_OFFL_SIR_IOPM_2_20180923T044758_20180923T045841_C001 CS OFFL SIR IOPM 2 20180923T050419 20180923T051958 C001 CS_OFFL_SIR_IOPM_2_20180923T053553_20180923T054100_C001 CS OFFL SIR IOPM 2 20180923T054403 20180923T060502 C001 CS_OFFL_SIR_IOPM_2_20180923T060705_20180923T061109_C001 CS_OFFL_SIR_IOPM_2_20180923T061515_20180923T062321_C001 CS_OFFL_SIR_IOPM_2_20180923T062846_20180923T070042_C001 CS_OFFL_SIR_IOPM_2_20180923T071242_20180923T071459_C001 CS_OFFL_SIR_IOPM_2_20180923T074359_20180923T074902_C001 CS_OFFL_SIR_IOPM_2_20180923T075451_20180923T080008_C001 CS OFFL SIR IOPM 2 20180923T080725 20180923T082820 C001 CS_OFFL_SIR_IOPM_2_20180923T083105_20180923T084232_C001 CS_OFFL_SIR_IOPM_2_20180923T085154_20180923T085642_C001 CS OFFL SIR IOPM 2 20180923T091209 20180923T091714 C001 CS OFFL SIR IOPM 2 20180923T091902 20180923T092853 C001 CS OFFL SIR IOPM 2 20180923T093613 20180923T093908 C001 CS OFFL SIR IOPM 2 20180923T094632 20180923T102230 C001 CS_OFFL_SIR_IOPM_2_20180923T103354_20180923T103440_C001 CS OFFL SIR IOPM 2 20180923T103528 20180923T104219 C001 CS_OFFL_SIR_IOPM_2_20180923T104233_20180923T110646_C001 CS_OFFL_SIR_IOPM_2_20180923T112041_20180923T112303_C001 CS OFFL SIR IOPM 2 20180923T112547 20180923T114138 C001 CS_OFFL_SIR_IOPM_2_20180923T114142_20180923T115359_C001 CS_OFFL_SIR_IOPM_2_20180923T121538_20180923T123122_C001 CS OFFL SIR IOPM 2 20180923T124004 20180923T124833 C001 CS_OFFL_SIR_IOPM_2_20180923T125756_20180923T130221_C001 CS OFFL SIR IOPM 2 20180923T130516 20180923T131905 C001 CS_OFFL_SIR_IOPM_2_20180923T135053_20180923T135140_C001 CS_OFFL_SIR_IOPM_2_20180923T140054_20180923T140448_C001 CS_OFFL_SIR_IOPM_2_20180923T140611_20180923T142849_C001 CS OFFL SIR IOPM 2 20180923T143244 20180923T144135 C001 CS_OFFL_SIR_IOPM_2_20180923T144504_20180923T150735_C001 CS OFFL SIR IOPM 2 20180923T153447 20180923T160823 C001 CS_OFFL_SIR_IOPM_2_20180923T161459_20180923T161924_C001 CS OFFL SIR IOPM 2 20180923T162432 20180923T165028 C001

Test Failed SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

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

SWH Averaging Status, Ocean Backscatter Averaging Status Description 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.

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

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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.

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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 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

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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 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 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 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.

S_OFFL_SIR_IOPM_2_20180923T165605_20180923T170204_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T171639_20180923T173117_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T173652_20180923T174621_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T175414_20180923T180002_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T180328_20180923T181706_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T185241_20180923T192554_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T193319_20180923T193833_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T194517_20180923T194843_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T195514_20180923T195702_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T201550_20180923T202005_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T203000_20180923T204126_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T204412_20180923T210515_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T211153_20180923T211320_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T211327_20180923T211735_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T212250_20180923T213242_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T213430_20180923T214148_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T214244_20180923T214650_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T215410_20180923T215431_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T220915_20180923T224402_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T224651_20180923T225218_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T225224_20180923T225231_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T225238_20180923T225511_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180923T230320_20180923T231550_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T231614_20180923T233338_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180923T235505_20180924T000644_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPN_2_20180923T020105_20180923T020227_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPN_2_20180923T020438_20180923T020950_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPN_2_20180923T043403_20180923T043516_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_IOPN_2_20180923T125731_20180923T125756_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPN_2_20180923T193834_20180923T193945_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPR_2_20180923T053312_20180923T053359_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPR_2_20180923T160824_20180923T161044_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPR_2_20180923T215655_20180923T215705_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
5.8 L2 Ocean Retracking Quality Check		·

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. 71 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.

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:

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: 2						
Product	Test Failed	Description				
CS_OFFL_SIR_IOP_220180923T021204_20180923T030138_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records				
CS_OFFL_SIR_IOP_220180923T030138_20180923T035118_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records				

6.6 P2P Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

Number of products with errors:

Product	Test Failed	Description
	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T003250_20180923T012225_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_220180923T012225_20180923T021204_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T021204_20180923T030138_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_220180923T030138_20180923T035118_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_220180923T035118_20180923T044052_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_220180923T044052_20180923T053031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T053031_20180923T062006_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_220180923T062006_20180923T070945_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_220180923T070945_20180923T075919_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_220180923T075919_20180923T084858_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T084858_20180923T093833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T093833_20180923T102812_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T102812_20180923T111746_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_220180923T111746_20180923T120725_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_220180923T120725_20180923T125700_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_220180923T125700_20180923T134639_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_220180923T134639_20180923T143613_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_220180923T143613_20180923T152553_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_220180923T152553_20180923T161527_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T161527_20180923T170506_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T170506_20180923T175441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T175441_20180923T184420_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_220180923T184420_20180923T193354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T193354_20180923T202333_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_220180923T202333_20180923T211308_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_220180923T211308_20180923T220247_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_220180923T220247_20180923T225221_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_220180923T225221_20180923T234200_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_220180923T234200_20180924T003135_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180922T234311_20180923T003250_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T003250_20180923T012225_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T012225_20180923T021204_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T021204_20180923T030138_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T030138_20180923T035118_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T035118_20180923T044052_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T044052_20180923T053031_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T053031_20180923T062006_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T062006_20180923T070945_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T070945_20180923T075919_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T075919_20180923T084858_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T084858_20180923T093833_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T093833_20180923T102812_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T102812_20180923T111746_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T111746_20180923T120725_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T120725_20180923T125700_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T125700_20180923T134639_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T134639_20180923T143613_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T143613_20180923T152553_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T152553_20180923T161527_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T161527_20180923T170506_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T170506_20180923T175441_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T175441_20180923T184420_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T184420_20180923T193354_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T193354_20180923T202333_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T202333_20180923T211308_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T211308_20180923T220247_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T220247_20180923T225221_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice or more records.
CS_OFFL_SIR_IOP_220180923T225221_20180923T234200_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.
CS_OFFL_SIR_IOP_220180923T234200_20180924T003135_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Ave more records.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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. Number of products with errors: 28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180922T234311_20180923T003250_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T003250_20180923T012225_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T012225_20180923T021204_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T021204_20180923T030138_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T030138_20180923T035118_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T035118_20180923T044052_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T044052_20180923T053031_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T053031_20180923T062006_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180923T062006_20180923T070945_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T070945_20180923T075919_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T075919_20180923T084858_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T093833_20180923T102812_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T102812_20180923T111746_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T111746_20180923T120725_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T120725_20180923T125700_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T125700_20180923T134639_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T134639_20180923T143613_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T143613_20180923T152553_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T152553_20180923T161527_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T161527_20180923T170506_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T175441_20180923T184420_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T184420_20180923T193354_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T193354_20180923T202333_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T202333_20180923T211308_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T211308_20180923T220247_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T220247_20180923T225221_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T225221_20180923T234200_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180923T234200_20180924T003135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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