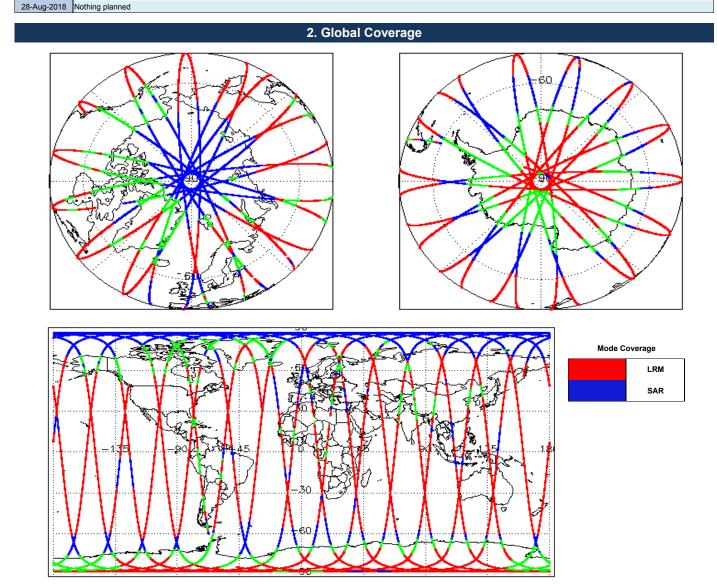


IDEAS+ Daily Report for IOP data:

27/08/2018

1. Overview				
Dement Dreductions	20.4	Check	L1 & L2	P2P
Report Production:	29-Aug-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrueSet Oscar Presses	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		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 26-Aug-2018 None 27-Aug-2018 None



3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

4.3 L1B Auxilary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre-de	etermined baseline and also to check the	validity of Auxiliary Data Files is correct.	
Number of products with errors: 0			
4.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag for each measurement record. T	The bit value of this flag indicates any pro	blems when set.	
Number of products with errors: 0			
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 bein	g investigated and will be updated in the next SW update.	
Number of products with errors: 2			
Product	Test Failed	Description	
CS_OFFL_SIR_IOPM1B_20180827T195653_20180827T195814_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	
CS_OFFL_SIR_IOPM1B_20180827T211941_20180827T212204_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_20180827T085758_20180827T090602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180827T115706_20180827T115752_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180827T151058_20180827T151307_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180827T165011_20180827T165053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180827T200316_20180827T200414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180827T231931_20180827T232342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180827T105135_20180827T105542_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180827T122917_20180827T123618_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180827T155115_20180827T155339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180827T200414_20180827T201203_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180827T210217_20180827T210748_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:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

2

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180827T195653_20180827T195814_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_20180827T211941_20180827T212204_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 CS_OFFL_SIR_IOPM_2_20180826T233553_20180827T000927_C001 CS OFFL SIR IOPM 2 20180827T001031 20180827T001317 C001 CS_OFFL_SIR_IOPM_2_20180827T002126_20180827T003612_C001 CS OFFL SIR IOPM 2 20180827T004053 20180827T005748 C001 CS OFFL SIR IOPM 2 20180827T010015 20180827T010532 C001 CS_OFFL_SIR_IOPM_2_20180827T010551_20180827T010748_C001 CS OFFL SIR IOPM_2_20180827T011605_20180827T012908_C001 CS_OFFL_SIR_IOPM_2_20180827T013122_20180827T014853_C001 CS_OFFL_SIR_IOPM_2_20180827T021047_20180827T022113_C001 CS OFFL SIR IOPM 2 20180827T022252 20180827T023641 C001 CS_OFFL_SIR_IOPM_2_20180827T023940_20180827T024443_C001 CS_OFFL_SIR_IOPM_2_20180827T025326_20180827T025412_C001 CS OFFL SIR IOPM 2 20180827T030059 20180827T030518 C001 CS_OFFL_SIR_IOPM_2_20180827T031059_20180827T031500_C001 CS OFFL SIR IOPM 2 20180827T031623 20180827T032333 C001 CS_OFFL_SIR_IOPM_2_20180827T032455_20180827T032704_C001 CS_OFFL_SIR_IOPM_2_20180827T035513_20180827T041511_C001 CS OFFL SIR IOPM 2 20180827T041956 20180827T042359 C001 CS_OFFL_SIR_IOPM_2_20180827T043136_20180827T050454_C001 CS OFFL SIR IOPM 2 20180827T053211 20180827T055436 C001 CS_OFFL_SIR_IOPM_2_20180827T055747_20180827T060313_C001 CS_OFFL_SIR_IOPM_2_20180827T061029_20180827T062112_C001 CS_OFFL_SIR_IOPM_2_20180827T062649_20180827T064234_C001 CS OFFL SIR IOPM 2 20180827T065820 20180827T070329 C001 CS_OFFL_SIR_IOPM_2_20180827T070618_20180827T072715_C001 CS_OFFL_SIR_IOPM_2_20180827T072938_20180827T073355_C001 CS OFFL SIR IOPM 2 20180827T073748 20180827T074551 C001 CS_OFFL_SIR_IOPM_2_20180827T075114_20180827T082306_C001 CS_OFFL_SIR_IOPM_2_20180827T083507_20180827T083726_C001 CS OFFL SIR IOPM 2 20180827T085758 20180827T090602 C001 CS OFFL SIR IOPM 2 20180827T090617 20180827T091142 C001 CS OFFL SIR IOPM 2 20180827T091723 20180827T092239 C001 CS OFFL SIR IOPM 2 20180827T092944 20180827T095049 C001 CS_OFFL_SIR_IOPM_2_20180827T095334_20180827T100509_C001 CS OFFL SIR IOPM 2 20180827T101423 20180827T101911 C001 CS OFFL SIR IOPM 2 20180827T103401 20180827T103945 C001 CS_OFFL_SIR_IOPM_2_20180827T104132_20180827T105135_C001 CS OFFL SIR IOPM 2 20180827T105849 20180827T110139 C001 CS_OFFL_SIR_IOPM_2_20180827T110907_20180827T114520_C001 CS_OFFL_SIR_IOPM_2_20180827T115752_20180827T120443_C001 CS OFFL SIR IOPM 2 20180827T120456 20180827T122917 C001 CS OFFL SIR IOPM 2 20180827T124307 20180827T124538 C001 CS_OFFL_SIR_IOPM_2_20180827T124817_20180827T130409_C001 CS_OFFL_SIR_IOPM_2_20180827T130414_20180827T131624_C001 CS_OFFL_SIR_IOPM_2_20180827T133244_20180827T133641_C001 CS_OFFL_SIR_IOPM_2_20180827T133805_20180827T135352_C001 CS OFFL SIR IOPM 2 20180827T140012 20180827T141041 C001 CS_OFFL_SIR_IOPM_2_20180827T142027_20180827T142452_C001 CS OFFL SIR IOPM 2 20180827T142741 20180827T144135 C001 CS_OFFL_SIR_IOPM_2_20180827T144315_20180827T144705_C001 CS OFFL SIR IOPM 2 20180827T152841 20180827T155115 C001

Test Failed Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status

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CS_OFFL_SIR_IOPM_2_20180827T155513_20180827T160407_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T160718_20180827T163014_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T165716_20180827T173056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T173731_20180827T174155_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T174650_20180827T181041_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T183901_20180827T185347_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T185922_20180827T190856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T191645_20180827T192233_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T192553_20180827T195029_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T200140_20180827T200316_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T201511_20180827T204833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T205551_20180827T210104_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T210748_20180827T211132_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T211215_20180827T211932_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T213819_20180827T214237_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T215122_20180827T220356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T220642_20180827T222744_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T223422_20180827T223551_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T223558_20180827T224007_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T224510_20180827T225513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T225700_20180827T230417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T230513_20180827T230919_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T231546_20180827T231706_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T233144_20180827T233443_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180827T023752_20180827T023940_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180827T050703_20180827T051039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180827T083906_20180827T084029_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180827T123618_20180827T123852_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180827T173623_20180827T173731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T064732_20180827T065511_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T065546_20180827T065626_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T082700_20180827T083330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T090602_20180827T090617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T095049_20180827T095334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T115125_20180827T115246_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T133003_20180827T133124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T164242_20180827T165011_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180827T185347_20180827T185922_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 88

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180826T233553_20180827T000927_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T002126_20180827T003612_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T004053_20180827T005748_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T010015_20180827T010532_C001	lice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180827T010551_20180827T010748_C001		The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180827T011605_20180827T012908_C001 CS OFFL SIR IOPM 2 20180827T013122 20180827T014853 C001 CS_OFFL_SIR_IOPM_2_20180827T021047_20180827T022113_C001 CS_OFFL_SIR_IOPM_2_20180827T022252_20180827T023641_C001 CS_OFFL_SIR_IOPM_2_20180827T023940_20180827T024443_C001 CS_OFFL_SIR_IOPM_2_20180827T025326_20180827T025412_C001 CS OFFL SIR IOPM 2 20180827T030059 20180827T030518 C001 CS OFFL SIR IOPM 2 20180827T031059 20180827T031500 C001 CS_OFFL_SIR_IOPM_2_20180827T031623_20180827T032333_C001 CS_OFFL_SIR_IOPM_2_20180827T032455_20180827T032704_C001 CS_OFFL_SIR_IOPM_2_20180827T035513_20180827T041511_C001 CS_OFFL_SIR_IOPM_2_20180827T041956_20180827T042359_C001 CS_OFFL_SIR_IOPM_2_20180827T042420_20180827T042622_C001 CS_OFFL_SIR_IOPM_2_20180827T043136_20180827T050454_C001 CS_OFFL_SIR_IOPM_2_20180827T053211_20180827T055436_C001 CS OFFL SIR IOPM 2 20180827T055747 20180827T060313 C001 CS_OFFL_SIR_IOPM_2_20180827T061029_20180827T062112_C001 CS_OFFL_SIR_IOPM_2_20180827T062649_20180827T064234_C001 CS OFFL SIR IOPM 2 20180827T065820 20180827T070329 C001 CS_OFFL_SIR_IOPM_2_20180827T070618_20180827T072715_C001 CS_OFFL_SIR_IOPM_2_20180827T072938_20180827T073355_C001 CS OFFL SIR IOPM 2 20180827T073748 20180827T074551 C001 CS_OFFL_SIR_IOPM_2_20180827T075114_20180827T082306_C001 CS OFFL SIR IOPM 2 20180827T083507 20180827T083726 C001 CS OFFL SIR IOPM 2 20180827T085758 20180827T090602 C001 CS OFFL SIR IOPM 2 20180827T090617 20180827T091142 C001 CS_OFFL_SIR_IOPM_2_20180827T091723_20180827T092239_C001 CS_OFFL_SIR_IOPM_2_20180827T092944_20180827T095049_C001 CS_OFFL_SIR_IOPM_2_20180827T095334_20180827T100509_C001 CS OFFL SIR IOPM 2 20180827T101423 20180827T101911 C001 CS_OFFL_SIR_IOPM_2_20180827T103401_20180827T103945_C001 CS_OFFL_SIR_IOPM_2_20180827T104132_20180827T105135_C001 CS OFFL SIR IOPM 2 20180827T105849 20180827T110139 C001 CS_OFFL_SIR_IOPM_2_20180827T110907_20180827T114520_C001 CS_OFFL_SIR_IOPM_2_20180827T115752_20180827T120443_C001 CS OFFL SIR IOPM 2 20180827T120456 20180827T122917 C001 CS_OFFL_SIR_IOPM_2_20180827T124307_20180827T124538_C001 CS OFFL SIR IOPM 2 20180827T124817 20180827T130409 C001 CS OFFL SIR IOPM 2 20180827T130414 20180827T131624 C001 CS_OFFL_SIR_IOPM_2_20180827T133244_20180827T133641_C001 CS_OFFL_SIR_IOPM_2_20180827T133805_20180827T135352_C001 CS OFFL SIR IOPM 2 20180827T140012 20180827T141041 C001 CS_OFFL_SIR_IOPM_2_20180827T142027_20180827T142452_C001 CS_OFFL_SIR_IOPM_2_20180827T142741_20180827T144135_C001 CS_OFFL_SIR_IOPM_2_20180827T144315_20180827T144705_C001 CS_OFFL_SIR_IOPM_2_20180827T152841_20180827T155115_C001 CS OFFL SIR IOPM 2 20180827T155513 20180827T160407 C001 CS_OFFL_SIR_IOPM_2_20180827T160718_20180827T163014_C001 CS_OFFL_SIR_IOPM_2_20180827T165716_20180827T173056_C001 CS OFFL SIR IOPM 2 20180827T173731 20180827T174155 C001 CS_OFFL_SIR_IOPM_2_20180827T174650_20180827T181041_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

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

Ice 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 SWH Averaging Status, Ocean

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

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

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice 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 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 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 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.

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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 more records.

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

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

CS_OFFL_SIR_IOPM_2_20180827T181830_20180827T182430_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T183901_20180827T185347_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T185922_20180827T190856_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T191645_20180827T192233_C001	Ice Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T192553_20180827T195029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T200140_20180827T200316_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T201511_20180827T204833_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T205551_20180827T210104_C001	Ice Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T211215_20180827T211932_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T213819_20180827T214237_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T215122_20180827T220356_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T220642_20180827T222744_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T224510_20180827T225513_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T225700_20180827T230417_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T230513_20180827T230919_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T231546_20180827T231706_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T231706_20180827T231758_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPM_2_20180827T233144_20180827T233443_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPN_2_20180827T023752_20180827T023940_C001	Ice Backscatter Averaging Status
CS_OFFL_SIR_IOPN_2_20180827T050703_20180827T051039_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPN_2_20180827T083906_20180827T084029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPN_2_20180827T123618_20180827T123852_C001	Ice Backscatter Averaging Status
CS_OFFL_SIR_IOPN_2_20180827T173623_20180827T173731_C001	Ice Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T064732_20180827T065511_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T065546_20180827T065626_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T082700_20180827T083330_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T090602_20180827T090617_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T095049_20180827T095334_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T115125_20180827T115246_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T133003_20180827T133124_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T164242_20180827T165011_C001	SWH Averaging Status, Ocean Backscatter Averaging Status
CS_OFFL_SIR_IOPR_2_20180827T185347_20180827T185922_C001	SWH Averaging Status, Ocean Backscatter Averaging Status

more record 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 more record 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 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 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 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 nore 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

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180827T191713_20180827T200649_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180827T205627_20180827T214602_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. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180826T232630_20180827T001605_C003	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_220180827T001605_20180827T010543_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_220180827T010543_20180827T015519_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T015519_20180827T024457_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_220180827T024457_20180827T033433_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T033433_20180827T042411_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_220180827T042411_20180827T051346_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_220180827T051346_20180827T060324_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_220180827T060324_20180827T065300_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_220180827T065300_20180827T074238_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_20180827T074238_20180827T083213_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_220180827T083213_20180827T092152_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T092152_20180827T101127_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180827T101127_20180827T110105_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_220180827T110105_20180827T115040_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_220180827T115040_20180827T124018_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_220180827T124018_20180827T132954_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_220180827T132954_20180827T141932_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_220180827T141932_20180827T150908_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_220180827T150908_20180827T155846_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_220180827T155846_20180827T164821_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_220180827T164821_20180827T173759_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T173759_20180827T182735_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_220180827T182735_20180827T191713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T191713_20180827T200649_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_220180827T200649_20180827T205627_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T205627_20180827T214602_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_220180827T214602_20180827T223540_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T223540_20180827T232516_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 29

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Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180826T232630_20180827T001605_C003	Backscatter Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180827T001605_20180827T010543_C001	Backscatter Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
	00	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_220180827T015519_20180827T024457_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_220180827T024457_20180827T033433_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_220180827T033433_20180827T042411_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_220180827T042411_20180827T051346_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_220180827T051346_20180827T060324_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_220180827T060324_20180827T065300_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_220180827T065300_20180827T074238_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_20180827T074238_20180827T083213_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_220180827T083213_20180827T092152_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_220180827T092152_20180827T101127_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_220180827T101127_20180827T110105_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_220180827T110105_20180827T115040_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_20180827T115040_20180827T124018_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_220180827T124018_20180827T132954_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_220180827T132954_20180827T141932_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_220180827T141932_20180827T150908_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_220180827T150908_20180827T155846_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_220180827T155846_20180827T164821_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_220180827T164821_20180827T173759_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_220180827T173759_20180827T182735_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_220180827T182735_20180827T191713_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_220180827T191713_20180827T200649_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_220180827T200649_20180827T205627_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_220180827T205627_20180827T214602_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_220180827T214602_20180827T223540_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_220180827T223540_20180827T232516_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180826T232630_20180827T001605_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T001605_20180827T010543_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T010543_20180827T015519_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T015519_20180827T024457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T024457_20180827T033433_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T033433_20180827T042411_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T042411_20180827T051346_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T051346_20180827T060324_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180827T060324_20180827T065300_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_2__20180827T065300_20180827T074238_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T074238_20180827T083213_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T083213_20180827T092152_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T092152_20180827T101127_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T101127_20180827T110105_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T110105_20180827T115040_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T115040_20180827T124018_C001 Ocean Retracking Quality Flag CS OFFL SIR IOP 2 20180827T124018 20180827T132954 C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T132954_20180827T141932_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T141932_20180827T150908_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T150908_20180827T155846_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T155846_20180827T164821_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T164821_20180827T173759_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T173759_20180827T182735_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T191713_20180827T200649_C001 Ocean Retracking Quality Flag CS OFFL SIR IOP 2 20180827T200649 20180827T205627 C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T205627_20180827T214602_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T214602_20180827T223540_C001 Ocean Retracking Quality Flag CS_OFFL_SIR_IOP_2__20180827T223540_20180827T232516_C001 Ocean Retracking Quality Flag

The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records.