

IDEAS+ Daily Report for IOP data:

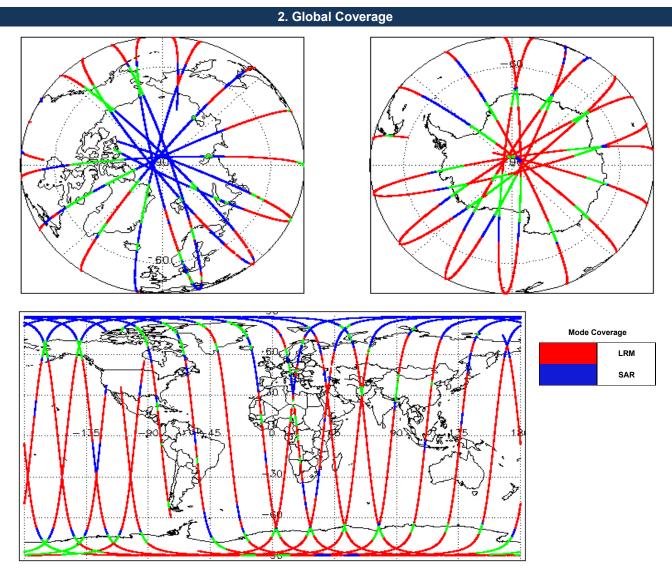
27/03/2019

1. Overview				
Report Production:	01-Apr-2019	Check	L1 & L2	P2P
Report Froduction.	01-Api-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
FIDLESSOF USEU.	GryoGal Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	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	Nominal
		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-Mar-2019 None

27-Mar-2019 Missing L1, L2 and P2P products 0000-0600 due to AUXI_MOG2D file missing at the time of processing. 28-Mar-2019 Nothing planned



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 pro	e-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 Error Check				
CryoSat L1B data includes a correction error flag for each measurement recor	rd. The bit value of this flag indicat	es any problems 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 measurer	ment record. The bit value of this f	lag indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR produ	ucts due to a configuration issue. 1	This is being investigated and will be updated in the next SW update.		
Number of products with errors: 0				
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.				
	a. The bit value of this hag halout	es any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is	-	as any problems when set.		
	-	as any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is	-	bescription		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13	to be expected.			
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product	to be expected.	Description		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001	to be expected. Test Failed Loss of Echo	Description The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001	to be expected. Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001	to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 13 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 13 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 13 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 13 CS_OFFL_SIR_IOPM1B_20190327T072713_20190327T170746_C001 14	to be expected. Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 13 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 14 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 15 CS_OFFL_SIR_IOPM1B_20190327T072713_20190327T1707248_C001 15 CS_OFFL_SIR_IOPN1B_20190327T122505_20190327T122807_C001 15 CS_OFFL_SIR_IOPN1B_20190327T140607_20190327T140706_C001 15	to be expected. Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 13 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 14 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 13 CS_OFFL_SIR_IOPM1B_20190327T17072713_20190327T170746_C001 14 CS_OFFL_SIR_IOPN1B_20190327T072713_20190327T072748_C001 14 CS_OFFL_SIR_IOPN1B_20190327T122505_20190327T142807_C001 14 CS_OFFL_SIR_IOPN1B_20190327T140607_20190327T140706_C001 14 CS_OFFL_SIR_IOPN1B_20190327T153959_20190327T154250_C001 14	to be expected. Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 13 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 13 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 13 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 13 CS_OFFL_SIR_IOPM1B_20190327T170713_20190327T170746_C001 13 CS_OFFL_SIR_IOPM1B_20190327T172713_20190327T170746_C001 13 CS_OFFL_SIR_IOPN1B_20190327T172713_20190327T17072748_C001 13	to be expected.	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 CS_OFFL_SIR_IOPM1B_20190327T17072713_20190327T072748_C001 CS_OFFL_SIR_IOPN1B_20190327T122505_20190327T122807_C001 CS_OFFL_SIR_IOPN1B_20190327T140607_20190327T140706_C001 CS_OFFL_SIR_IOPN1B_20190327T153959_20190327T154250_C001 CS_OFFL_SIR_IOPN1B_20190327T154406_20190327T154620_C001	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 CS_OFFL_SIR_IOPM1B_20190327T072713_20190327T072748_C001 CS_OFFL_SIR_IOPN1B_20190327T122505_20190327T122807_C001 CS_OFFL_SIR_IOPN1B_20190327T154250_C001 CS_OFFL_SIR_IOPN1B_20190327T153959_20190327T154250_C001 CS_OFFL_SIR_IOPN1B_20190327T154406_20190327T154620_C001 CS_OFFL_SIR_IOPN1B_20190327T154406_20190327T154620_C001 CS_OFFL_SIR_IOPN1B_20190327T23015_20190327T154620_C001	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product 13 CS_OFFL_SIR_IOPM1B_20190327T120911_20190327T121356_C001 CS_OFFL_SIR_IOPM1B_20190327T143120_20190327T143440_C001 CS_OFFL_SIR_IOPM1B_20190327T170102_20190327T170746_C001 CS_OFFL_SIR_IOPM1B_20190327T072713_20190327T072748_C001 CS_OFFL_SIR_IOPN1B_20190327T122505_20190327T122807_C001 CS_OFFL_SIR_IOPN1B_20190327T140607_20190327T140706_C001 CS_OFFL_SIR_IOPN1B_20190327T153959_20190327T154250_C001 CS_OFFL_SIR_IOPN1B_20190327T154406_20190327T154620_C001 CS_OFFL_SIR_IOPN1B_20190327T154406_20190327T1223107_C001 CS_OFFL_SIR_IOPN1B_20190327T1223015_20190327T1223107_C001 CS_OFFL_SIR_IOPN1B_20190327T104017_20190327T104151_C001 CS_OFFL_SIR_IOPN1B_20190327T1223015_20190327T104151_C001	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		

5. IOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

5.1 L2 Product Format Check

CS_OFFL_SIR_IOPR1B_20190327T204829_20190327T205312_C001

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. 0 Number of products with errors:

Loss of Echo

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 Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

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:

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. 61

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190327T060922_20190327T063640_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T063903_20190327T064059_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T064150_20190327T064638_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T064926_20190327T071533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190327T074815_20190327T075810_C001 CS OFFL SIR IOPM 2 20190327T080349 20190327T081550 C001 CS_OFFL_SIR_IOPM_2_20190327T082110_20190327T082706_C001 CS_OFFL_SIR_IOPM_2_20190327T082835_20190327T085710_C001 CS OFFL SIR IOPM 2 20190327T090504 20190327T090700 C001 CS OFFL SIR IOPM 2 20190327T091953 20190327T095451 C001 CS OFFL SIR IOPM 2 20190327T100017 20190327T100537 C001 CS OFFL SIR IOPM 2 20190327T100707 20190327T101106 C001 CS_OFFL_SIR_IOPM_2_20190327T101212_20190327T101333_C001 CS_OFFL_SIR_IOPM_2_20190327T104320_20190327T104603_C001 CS OFFL SIR IOPM 2 20190327T105946 20190327T110818 C001 CS_OFFL_SIR_IOPM_2_20190327T111104_20190327T113409_C001 CS OFFL SIR IOPM 2 20190327T113908 20190327T114019 C001 CS_OFFL_SIR_IOPM_2_20190327T114025_20190327T114431_C001 CS_OFFL_SIR_IOPM_2_20190327T114606_20190327T115935_C001 CS OFFL SIR IOPM 2 20190327T120123 20190327T120726 C001 CS_OFFL_SIR_IOPM_2_20190327T120910_20190327T121356_C001 CS_OFFL_SIR_IOPM_2_20190327T123830_20190327T131204_C001 CS OFFL SIR IOPM 2 20190327T131414 20190327T131917 C001 CS_OFFL_SIR_IOPM_2_20190327T131937_20190327T132244_C001 CS_OFFL_SIR_IOPM_2_20190327T132525_20190327T132722_C001 CS OFFL SIR IOPM 2 20190327T133016 20190327T140103 C001 CS_OFFL_SIR_IOPM_2_20190327T142047_20190327T142859_C001 CS OFFL SIR IOPM 2 20190327T143119 20190327T143440 C001 CS OFFL SIR IOPM 2 20190327T143443 20190327T145126 C001 CS OFFL SIR IOPM 2 20190327T145307 20190327T145815 C001 CS_OFFL_SIR_IOPM_2_20190327T145834_20190327T145846_C001 CS_OFFL_SIR_IOPM_2_20190327T145852_20190327T150021_C001 CS_OFFL_SIR_IOPM_2_20190327T150759_20190327T151750_C001 CS OFFL SIR IOPM 2 20190327T152409 20190327T153540 C001 CS_OFFL_SIR_IOPM_2_20190327T160233_20190327T161400_C001 CS_OFFL_SIR_IOPM_2_20190327T161540_20190327T163029_C001 CS OFFL SIR IOPM_2_20190327T163225_20190327T163725_C001 CS_OFFL_SIR_IOPM_2_20190327T163733_20190327T163744_C001 CS_OFFL_SIR_IOPM_2_20190327T164602_20190327T164804_C001 CS OFFL SIR IOPM 2 20190327T164918 20190327T170048 C001 CS_OFFL_SIR_IOPM_2_20190327T170101_20190327T170746_C001 CS_OFFL_SIR_IOPM_2_20190327T174638_20190327T180952_C001 CS OFFL SIR IOPM 2 20190327T181304 20190327T181642 C001 CS OFFL SIR IOPM 2 20190327T181704 20190327T182008 C001 CS_OFFL_SIR_IOPM_2_20190327T182243_20190327T185142_C001 CS_OFFL_SIR_IOPM_2_20190327T192259_20190327T194910_C001 CS_OFFL_SIR_IOPM_2_20190327T195046_20190327T195556_C001 CS_OFFL_SIR_IOPM_2_20190327T200206_20190327T201358_C001 CS_OFFL_SIR_IOPM_2_20190327T201936_20190327T203633_C001 CS_OFFL_SIR_IOPM_2_20190327T210405_20190327T210610_C001 CS OFFL SIR IOPM 2 20190327T212236 20190327T212908 C001 CS_OFFL_SIR_IOPM_2_20190327T213046_20190327T213629_C001 CS_OFFL_SIR_IOPM_2_20190327T214127_20190327T221529_C001 CS OFFL SIR IOPM 2 20190327T222919 20190327T223014 C001 CS_OFFL_SIR_IOPM_2_20190327T224643_20190327T230837_C001

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

The Ocean Range Averaging Status Flag has been set for one or more reco The Ocean Range Averaging Status Flag has been set for one or more ecords 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 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 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 record 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 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 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 record 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 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 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 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 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 The Ocean Range Averaging Status Flag has been set for one or more ecords 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

CS_OFFL_SIR_IOPM_2_20190327T231012_20190327T231522_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T232038_20190327T235522_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190327T072633_20190327T072648_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190327T164805_20190327T164917_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190327T231522_20190327T231826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190327T170909_20190327T171030_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.

55

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190327T060922_20190327T063640_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T063903_20190327T064059_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T064150_20190327T064638_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T064926_20190327T071533_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T074815_20190327T075810_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T080349_20190327T081550_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T082110_20190327T082706_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T082835_20190327T085710_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T090504_20190327T090700_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T091953_20190327T095451_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T100017_20190327T100537_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T100707_20190327T101106_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T104320_20190327T104603_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T105946_20190327T110818_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T111104_20190327T113409_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T113908_20190327T114019_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T114025_20190327T114431_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T114606_20190327T115935_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T120123_20190327T120726_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T120910_20190327T121356_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T123830_20190327T131204_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T131937_20190327T132244_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T132525_20190327T132722_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T133016_20190327T140103_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T142047_20190327T142859_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T143119_20190327T143440_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T143443_20190327T145126_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T145307_20190327T145815_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T145852_20190327T150021_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T150759_20190327T151750_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T152409_20190327T153540_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T160233_20190327T161400_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T161540_20190327T163029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T163225_20190327T163725_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T163733_20190327T163744_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T164918_20190327T170048_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T170101_20190327T170746_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190327T174638_20190327T180952_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T181304_20190327T181642_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T181704_20190327T182008_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T182243_20190327T185142_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T192259_20190327T194910_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T195046_20190327T195556_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T200206_20190327T201358_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T201936_20190327T203633_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T212236_20190327T212908_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T213046_20190327T213629_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T214127_20190327T221529_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T224643_20190327T230837_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T231012_20190327T231522_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190327T232038_20190327T235522_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190327T072633_20190327T072648_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190327T164805_20190327T164917_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190327T231522_20190327T231826_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190327T170909_20190327T171030_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. 36

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). Number of products with errors:

0

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

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. 22

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190327T055243_20190327T064221_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T064221_20190327T073156_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_220190327T073156_20190327T082135_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T082135_20190327T091110_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_220190327T091110_20190327T100048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T100048_20190327T105024_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_220190327T105024_20190327T114002_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220190327T114002_20190327T122937_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_20190327T122937_20190327T131915_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_220190327T131915_20190327T140851_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_220190327T140851_20190327T145829_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_220190327T145829_20190327T154804_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T154804_20190327T163742_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_220190327T163742_20190327T172718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T172718_20190327T181656_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_220190327T181656_20190327T190631_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T190631_20190327T195610_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_220190327T195610_20190327T204545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T204545_20190327T213523_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_220190327T213523_20190327T222459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T222459_20190327T231437_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_220190327T231437_20190328T000412_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. 22

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190327T055243_20190327T064221_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_220190327T064221_20190327T073156_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_220190327T073156_20190327T082135_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_220190327T082135_20190327T091110_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_20190327T091110_20190327T100048_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_220190327T100048_20190327T105024_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_220190327T105024_20190327T114002_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_220190327T114002_20190327T122937_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_220190327T122937_20190327T131915_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_20190327T131915_20190327T140851_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_220190327T140851_20190327T145829_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_220190327T145829_20190327T154804_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_220190327T154804_20190327T163742_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_20190327T163742_20190327T172718_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_220190327T172718_20190327T181656_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_220190327T181656_20190327T190631_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_220190327T190631_20190327T195610_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_220190327T195610_20190327T204545_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_220190327T204545_20190327T213523_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_220190327T213523_20190327T222459_C001	SWH A Backso Backso
CS_OFFL_SIR_IOP_220190327T222459_20190327T231437_C001	SWH A Backso Backso
CS_OEEL_SIR_IOP_2_20190327T231437_20190328T000412_C001	SWH A Backso

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

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 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: 20

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190327T055243_20190327T064221_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T064221_20190327T073156_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T073156_20190327T082135_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T082135_20190327T091110_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T100048_20190327T105024_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T105024_20190327T114002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T114002_20190327T122937_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T122937_20190327T131915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T131915_20190327T140851_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T140851_20190327T145829_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T145829_20190327T154804_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T154804_20190327T163742_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T163742_20190327T172718_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T172718_20190327T181656_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T181656_20190327T190631_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T190631_20190327T195610_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T204545_20190327T213523_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T213523_20190327T222459_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T222459_20190327T231437_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190327T231437_20190328T000412_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.