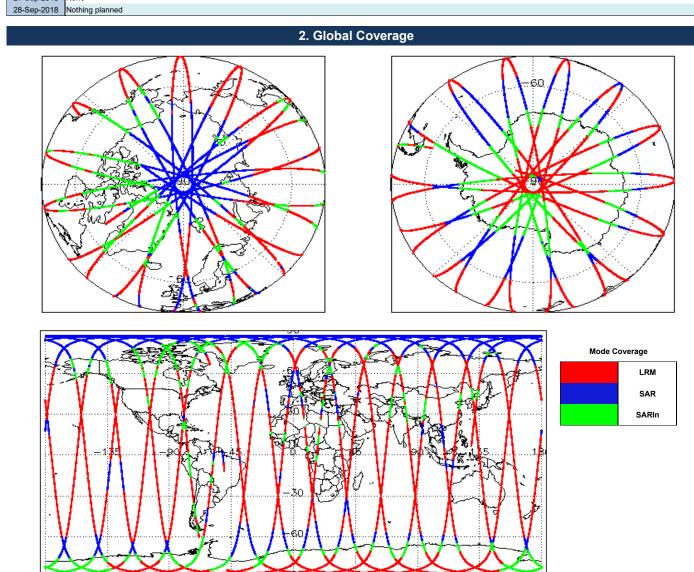


IDEAS+ Daily Report for GOP data:

27/09/2018

1. Overview				
Demont Dreductions	29-Oct-2018	Check	L1 & L2	P2P
Report Production:	29-Oct-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Draces and Lload		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instrument News 26-Sep-2018 None 27-Sep-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. GOP 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

lumber of products with errors:	0	
I.4 L1B Auxiliary Correction Erro	ror Check	
rvoSat I 1B data includes a correction error fla	ag for each measurement record. The bit value of this flag indicates any problems when set.	

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 GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180927T030406_20180927T033131_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20180927T033331_20180927T033733_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20180927T150844_20180927T151245_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 some products over land, but this is to be expected.

20

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180927T022751_20180927T024735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180927T040331_20180927T042653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180927T053950_20180927T055918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180927T124056_20180927T124346_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T015940_20180927T020243_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T051529_20180927T052008_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T061825_20180927T061937_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T093811_20180927T093912_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T124350_20180927T125003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T215042_20180927T215126_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T215205_20180927T215449_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T215455_20180927T215621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180927T233424_20180927T233527_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T083740_20180927T084509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T084509_20180927T084659_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T093912_20180927T094141_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T101927_20180927T102404_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T151737_20180927T152252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T165716_20180927T170327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180927T183652_20180927T184440_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

5.2 L2 Product Header Analysis

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

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). 0

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:	3
	•

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180927T030406_20180927T033131_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20180927T033331_20180927T033733_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20180927T150844_20180927T151245_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. 86

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180927T002136_20180927T002331_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T004326_20180927T005349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T005529_20180927T010903_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T011215_20180927T011717_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T012550_20180927T012649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T013234_20180927T013809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T014336_20180927T014738_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T014902_20180927T015016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T015022_20180927T015611_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T015734_20180927T015940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T022751_20180927T024735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T025238_20180927T025634_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T030406_20180927T033131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T035053_20180927T035317_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T040331_20180927T042653_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T043025_20180927T043547_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T044308_20180927T045348_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T045926_20180927T051528_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T052908_20180927T053001_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T053950_20180927T055918_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T060216_20180927T060616_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T061025_20180927T061825_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T062404_20180927T065538_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T070748_20180927T071003_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T073046_20180927T074420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T074959_20180927T075514_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T080235_20180927T082327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T082613_20180927T083740_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T084659_20180927T085157_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T091408_20180927T092402_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T093132_20180927T093414_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T094141_20180927T101738_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T103022_20180927T103720_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T103738_20180927T110151_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T111127_20180927T111321_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T112055_20180927T114854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T121038_20180927T122629_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180927T124056_20180927T124346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20180927T125300_20180927T125727_C001 CS OFFL SIR GOPM 2 20180927T130025 20180927T131413 C001 CS_OFFL_SIR_GOPM_2_20180927T131553_20180927T131835_C001 CS_OFFL_SIR_GOPM_2_20180927T135245_20180927T135835_C001 CS OFFL SIR GOPM 2 20180927T140118 20180927T142358 C001 CS OFFL SIR GOPM 2 20180927T142750 20180927T143638 C001 CS OFFL SIR GOPM 2 20180927T144012 20180927T150253 C001 CS OFFL SIR GOPM 2 20180927T151506 20180927T151702 C001 CS_OFFL_SIR_GOPM_2_20180927T152954_20180927T160328_C001 CS_OFFL_SIR_GOPM_2_20180927T161006_20180927T161429_C001 CS_OFFL_SIR_GOPM_2_20180927T161934_20180927T164325_C001 CS_OFFL_SIR_GOPM_2_20180927T165101_20180927T165716_C001 CS OFFL SIR GOPM 2 20180927T171128 20180927T172623 C001 CS_OFFL_SIR_GOPM_2_20180927T173157_20180927T174119_C001 CS_OFFL_SIR_GOPM_2_20180927T174920_20180927T175508_C001 CS OFFL SIR GOPM 2 20180927T175829 20180927T180254 C001 CS_OFFL_SIR_GOPM_2_20180927T180515_20180927T181516_C001 CS_OFFL_SIR_GOPM_2_20180927T184754_20180927T192059_C001 CS OFFL SIR GOPM 2 20180927T192826 20180927T193339 C001 CS_OFFL_SIR_GOPM_2_20180927T194025_20180927T194446_C001 CS_OFFL_SIR_GOPM_2_20180927T194453_20180927T195443_C001 CS OFFL SIR GOPM 2 20180927T201058 20180927T201504 C001 CS_OFFL_SIR_GOPM_2_20180927T202516_20180927T203634_C001 CS OFFL SIR GOPM 2 20180927T203919 20180927T210018 C001 CS OFFL SIR GOPM 2 20180927T210833 20180927T211242 C001 CS OFFL SIR GOPM 2 20180927T211754 20180927T213656 C001 CS_OFFL_SIR_GOPM_2_20180927T213750_20180927T214211_C001 CS_OFFL_SIR_GOPM_2_20180927T214629_20180927T214955_C001 CS_OFFL_SIR_GOPM_2_20180927T220731_20180927T223922_C001 CS_OFFL_SIR_GOPM_2_20180927T224158 20180927T224724 C001 CS_OFFL_SIR_GOPM_2_20180927T225828_20180927T231057_C001 CS_OFFL_SIR_GOPM_2_20180927T231142_20180927T232851_C001 CS_OFFL_SIR_GOPM_2_20180927T235025_20180928T000153_C001 CS_OFFL_SIR_GOPN_2_20180927T014739_20180927T014901_C001 CS_OFFL_SIR_GOPN_2_20180927T043920_20180927T044041_C001 CS OFFL SIR GOPN 2 20180927T053001 20180927T053053 C001 CS_OFFL_SIR_GOPN_2_20180927T120404_20180927T120522_C001 CS_OFFL_SIR_GOPN_2_20180927T120911_20180927T121038_C001 CS OFFL SIR GOPN 2 20180927T142613 20180927T142750 C001 CS OFFL SIR GOPN 2 20180927T210230 20180927T210652 C001 CS_OFFL_SIR_GOPR_2_20180927T010904_20180927T011027_C001 CS_OFFL_SIR_GOPR_2_20180927T093912_20180927T094141_C001 CS_OFFL_SIR_GOPR_2_20180927T101927_20180927T102404_C001 CS OFFL SIR GOPR 2 20180927T102902 20180927T102914 C001 CS_OFFL_SIR_GOPR_2_20180927T111947_20180927T112054_C001 CS_OFFL_SIR_GOPR_2_20180927T183652_20180927T184440_C001 CS OFFL SIR GOPR 2 20180927T200808 20180927T201058 C001 CS_OFFL_SIR_GOPR_2_20180927T210826_20180927T210832_C001

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

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

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. 84

roduct	Test Failed	Description
S_OFFL_SIR_GOPM_2_20180927T002136_20180927T002331_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.
S_OFFL_SIR_GOPM_2_20180927T004326_20180927T005349_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one of
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one of
S_OFFL_SIR_GOPM_2_20180927T005529_20180927T010903_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T011215_20180927T011717_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or m records.
S_OFFL_SIR_GOPM_2_20180927T012550_20180927T012649_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.
S_OFFL_SIR_GOPM_2_20180927T013234_20180927T013809_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.
S_OFFL_SIR_GOPM_2_20180927T014902_20180927T015016_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T015022_20180927T015611_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T015734_20180927T015940_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T022751_20180927T024735_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T025238_20180927T025634_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or m records.
S OFFL SIR GOPM 2 20180927T030406 20180927T033131 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T035053_20180927T035317_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T040331_20180927T042653_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T043025_20180927T043547_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or n records.
S_OFFL_SIR_GOPM_2_20180927T043554_20180927T043919_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or n
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T044308_20180927T045348_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T045926_20180927T051528_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T052908_20180927T053001_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T053950_20180927T055918_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T060216_20180927T060616_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or n
S_OFFL_SIR_GOPM_2_20180927T061025_20180927T061825_C001	Ice Backscatter Averaging Status	records.
S_OFFL_SIR_GOPM_2_20180927T062404_20180927T065538_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T070748_20180927T071003_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S OFFL SIR GOPM 2 20180927T073046 20180927T074420 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or n
S_OFFL_SIR_GOPM_2_20180927T074959_20180927T075514_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T080235_20180927T082327_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T082613_20180927T083740_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T084659_20180927T085157_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T091408_20180927T092402_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or n
S_OFFL_SIR_GOPM_2_20180927T093132_20180927T093414_C001	Ice Backscatter Averaging Status	records.
S_OFFL_SIR_GOPM_2_20180927T094141_20180927T101738_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T103022_20180927T103720_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T103738_20180927T110151_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T111127_20180927T111321_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or n
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T112055_20180927T114854_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T121038_20180927T122629_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T124056_20180927T124346_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T125300_20180927T125727_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or m
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one
S_OFFL_SIR_GOPM_2_20180927T130025_20180927T131413_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_GOPM_2_20180927T131553_20180927T131835_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S OFFL SIR GOPM 2 20180927T135245 20180927T135835 C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
S_OFFL_SIR_GOPM_2_20180927T140118_20180927T142358_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.

CS_OFFL_SIR_GOPM_2_20180927T144012_20180927T150253_C001 CS OFFL SIR GOPM 2 20180927T151506 20180927T151702 C001 CS_OFFL_SIR_GOPM_2_20180927T152954_20180927T160328_C001 CS_OFFL_SIR_GOPM_2_20180927T161006_20180927T161429_C001 CS OFFL SIR GOPM 2 20180927T161934 20180927T164325 C001 CS OFFL SIR GOPM 2 20180927T165101 20180927T165716 C001 CS OFFL SIR GOPM 2 20180927T171128 20180927T172623 C001 CS OFFL SIR GOPM 2 20180927T173157 20180927T174119 C001 CS_OFFL_SIR_GOPM_2_20180927T174920_20180927T175508_C001 CS_OFFL_SIR_GOPM_2_20180927T175829_20180927T180254_C001 CS_OFFL_SIR_GOPM_2_20180927T180515_20180927T181516_C001 CS_OFFL_SIR_GOPM_2_20180927T183418_20180927T183558_C001 CS OFFL SIR GOPM 2 20180927T184754 20180927T192059 C001 CS_OFFL_SIR_GOPM_2_20180927T192826_20180927T193339_C001 CS_OFFL_SIR_GOPM_2_20180927T194025_20180927T194446_C001 CS OFFL SIR GOPM 2 20180927T194453 20180927T195443 C001 CS_OFFL_SIR_GOPM_2_20180927T201058_20180927T201504_C001 CS_OFFL_SIR_GOPM_2_20180927T202516_20180927T203634_C001 CS OFFL SIR GOPM 2 20180927T203919 20180927T210018 C001 CS_OFFL_SIR_GOPM_2_20180927T210833_20180927T211242_C001 CS_OFFL_SIR_GOPM_2_20180927T211754_20180927T213656_C001 CS OFFL SIR GOPM 2 20180927T213750 20180927T214211 C001 CS_OFFL_SIR_GOPM_2_20180927T214629_20180927T214955_C001 CS OFFL SIR GOPM 2 20180927T220731 20180927T223922 C001 CS OFFL SIR GOPM 2 20180927T224158 20180927T224724 C001 CS OFFL SIR GOPM 2 20180927T225828 20180927T231057 C001 CS_OFFL_SIR_GOPM_2_20180927T231142_20180927T232851_C001 CS_OFFL_SIR_GOPM_2_20180927T235025_20180928T000153_C001 CS_OFFL_SIR_GOPN_2_20180927T014739_20180927T014901_C001 CS OFFL SIR GOPN 2 20180927T043920 20180927T044041 C001 CS_OFFL_SIR_GOPN_2_20180927T053001_20180927T053053_C001 CS_OFFL_SIR_GOPN_2_20180927T120404_20180927T120522_C001 CS OFFL SIR GOPN 2 20180927T120911 20180927T121038 C001 CS_OFFL_SIR_GOPN_2_20180927T142613_20180927T142750_C001 CS_OFFL_SIR_GOPN_2_20180927T210230_20180927T210652_C001 CS OFFL SIR GOPR 2 20180927T010904 20180927T011027 C001 CS_OFFL_SIR_GOPR_2_20180927T093912_20180927T094141_C001 CS_OFFL_SIR_GOPR_2_20180927T101927_20180927T102404_C001 CS OFFL SIR GOPR 2 20180927T102902 20180927T102914 C001 CS OFFL SIR GOPR 2 20180927T111947 20180927T112054 C001 CS_OFFL_SIR_GOPR_2_20180927T183652_20180927T184440_C001 CS_OFFL_SIR_GOPR_2_20180927T200808_20180927T201058_C001 CS_OFFL_SIR_GOPR_2_20180927T210826_20180927T210832_C001

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

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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 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.

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

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

The 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.

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.

6. GOP L2 Pole-to-Pole Data Quality Check

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180927T025646_20180927T034625_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20180927T143121_20180927T152100_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180926T233818_20180927T002758_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T002758_20180927T011732_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_GOP_220180927T011732_20180927T020711_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T020711_20180927T025646_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_GOP_220180927T025646_20180927T034625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T034625_20180927T043559_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_GOP_220180927T043559_20180927T052539_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_GOP_220180927T052539_20180927T061513_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_GOP_220180927T061513_20180927T070452_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T070452_20180927T075426_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_GOP_220180927T075426_20180927T084406_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_GOP_220180927T084406_20180927T093340_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_GOP_220180927T093340_20180927T102319_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T102319_20180927T111253_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T111253_20180927T120233_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_GOP_220180927T120233_20180927T125207_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_GOP_220180927T125207_20180927T134147_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_GOP_220180927T134147_20180927T143121_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_GOP_220180927T143121_20180927T152100_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_GOP_220180927T152100_20180927T161034_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_GOP_220180927T161034_20180927T170014_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_GOP_220180927T170014_20180927T174948_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T174948_20180927T183927_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_GOP_220180927T183927_20180927T192901_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_GOP_220180927T192901_20180927T201841_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_GOP_220180927T201841_20180927T210815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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CS_OFFL_SIR_GOP_220180927T210815_20180927T215754_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_GOP_220180927T215754_20180927T224728_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_GOP_220180927T224728_20180927T233708_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_GOP_220180927T233708_20180928T002642_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. 30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180926T233818_20180927T002758_C003	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_GOP_2_20180927T002758_20180927T011732_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_GOP_220180927T011732_20180927T020711_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_GOP_2_20180927T020711_20180927T025646_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_GOP_2_20180927T025646_20180927T034625_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_GOP_2_20180927T034625_20180927T043559_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_GOP_2_20180927T043559_20180927T052539_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_GOP_2_20180927T052539_20180927T061513_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_GOP_2_20180927T061513_20180927T070452_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_GOP_2_20180927T070452_20180927T075426_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_GOP_2_20180927T075426_20180927T084406_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_GOP_2_20180927T084406_20180927T093340_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_GOP_2_20180927T093340_20180927T102319_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_GOP_2_20180927T102319_20180927T111253_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_GOP_2_20180927T111253_20180927T120233_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_GOP_2_20180927T120233_20180927T125207_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_GOP_220180927T125207_20180927T134147_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_GOP_220180927T134147_20180927T143121_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_GOP_2_20180927T143121_20180927T152100_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_GOP_2_20180927T152100_20180927T161034_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_GOP_2_20180927T161034_20180927T170014_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_GOP_2_20180927T170014_20180927T174948_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_GOP_2_20180927T174948_20180927T183927_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_GOP_2_20180927T183927_20180927T192901_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_GOP_2_20180927T192901_20180927T201841_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_GOP_2_20180927T201841_20180927T210815_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_GOP_2_20180927T210815_20180927T215754_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_GOP_220180927T215754_20180927T224728_C001
CS_OFFL_SIR_GOP_220180927T224728_20180927T233708_C001
CS_OFFL_SIR_GOP_220180927T233708_20180928T002642_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

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: 27

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180927T002758_20180927T011732_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T011732_20180927T020711_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T020711_20180927T025646_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T025646_20180927T034625_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T034625_20180927T043559_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T043559_20180927T052539_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T052539_20180927T061513_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T070452_20180927T075426_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T075426_20180927T084406_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T093340_20180927T102319_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T102319_20180927T111253_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T111253_20180927T120233_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T120233_20180927T125207_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T125207_20180927T134147_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T134147_20180927T143121_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T143121_20180927T152100_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T152100_20180927T161034_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T161034_20180927T170014_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T170014_20180927T174948_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T174948_20180927T183927_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T183927_20180927T192901_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T192901_20180927T201841_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T201841_20180927T210815_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T210815_20180927T215754_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T215754_20180927T224728_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T224728_20180927T233708_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180927T233708_20180928T002642_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.