

IDEAS+ Daily Report for GOP data:

<u>19/12/2017</u>

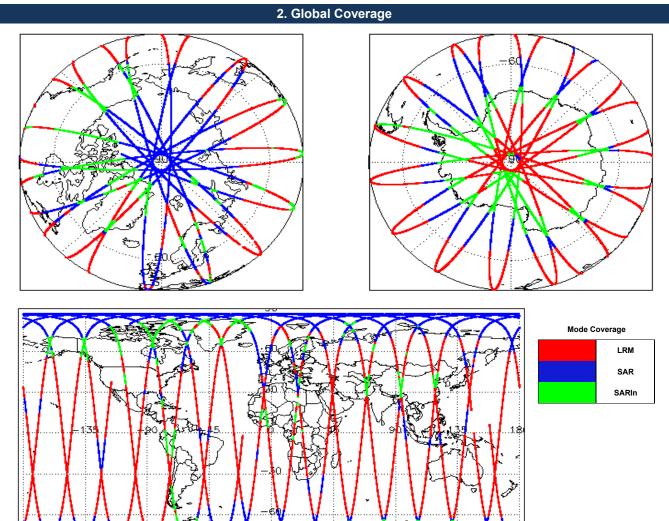


1. Overview				
	12 Eab 2010	Check	L1 & L2	P2P
Report Production:	13-Feb-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
		Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Product Header Analysis	See Section 5.2	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 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

18-Dec-2017 SIRAL unavailability from 16-Dec-2017 00:28:42 to 18-Dec-2017 13:35:07 due to an unexpected Platform anomaly. 19-Dec-2017 None

20-Dec-2017 SIRAL unavailability on 20-Dec-2017 from 10:18:22 to 12:04:46 due to a planned orbit manoeuvre.



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

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

Each product is checked for missing Data Set Descriptors with respect to a pr	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				
· · · · · · · · · · · · · · · · · · ·	rd. The bit value of this flag indicat	tes any problems when set		
CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measure	ment record. The bit value of this f	flag indicates any problems when set.		
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	d. The bit value of this flag indicat	es any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.			
Number of products with errors: 14				
Product	Test Failed	Description		
CS_OFFL_SIR_GOPM1B_20171219T032233_20171219T033618_C001	Loss of Echo	The tracking echo is missing for one or more records		
S_OFFL_SIR_GOPN1B_20171219T060853_20171219T060915_C001	Loss of Echo	The tracking echo is missing for one or more records		
S_OFFL_SIR_GOPN1B_20171219T110517_20171219T110747_C001	Loss of Echo	The tracking echo is missing for one or more records		
S_OFFL_SIR_GOPN1B_20171219T151845_20171219T152323_C001	Loss of Echo	The tracking echo is missing for one or more records		
55_011 E_31K_60F141B_201712191151045_201712191152525_6001				
	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001				
CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 CS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 CS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 CS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 CS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 CS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 CS_OFFL_SIR_GOPN1B_20171219T233404_20171219T233912_C001	Loss of Echo Loss of Echo Loss of Echo	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		
CS_OFFL_SIR_GOPN1B_20171219T15164_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 CS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 CS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 CS_OFFL_SIR_GOPN1B_20171219T233404_20171219T233912_C001 CS_OFFL_SIR_GOPN1B_20171219T033404_20171219T002019_C001 CS_OFFL_SIR_GOPR1B_20171219T030344_20171219T030450_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	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		
CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 CS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 CS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 CS_OFFL_SIR_GOPN1B_20171219T233404_20171219T233912_C001 CS_OFFL_SIR_GOPN1B_20171219T001320_20171219T002019_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	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		
SS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 SS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 SS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 SS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 SS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 SS_OFFL_SIR_GOPN1B_20171219T033404_20171219T233912_C001 SS_OFFL_SIR_GOPN1B_20171219T001320_20171219T002019_C001 SS_OFFL_SIR_GOPR1B_20171219T030344_20171219T030450_C001 SS_OFFL_SIR_GOPR1B_20171219T042833_20171219T043359_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	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		
SS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 SS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 SS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 SS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 SS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 SS_OFFL_SIR_GOPN1B_20171219T233404_20171219T233912_C001 SS_OFFL_SIR_GOPR1B_20171219T03320_20171219T002019_C001 SS_OFFL_SIR_GOPR1B_20171219T030344_20171219T030450_C001 SS_OFFL_SIR_GOPR1B_20171219T042833_20171219T043359_C001 SS_OFFL_SIR_GOPR1B_20171219T060513_20171219T060719_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	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		
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CS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 CS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 CS_OFFL_SIR_GOPN1B_20171219T183909_20171219T184031_C001 CS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 CS_OFFL_SIR_GOPN1B_20171219T233404_20171219T233912_C001 CS_OFFL_SIR_GOPR1B_20171219T001320_20171219T002019_C001 CS_OFFL_SIR_GOPR1B_20171219T030344_20171219T030450_C001 CS_OFFL_SIR_GOPR1B_20171219T042833_20171219T043359_C001 CS_OFFL_SIR_GOPR1B_20171219T060513_20171219T060719_C001 CS_OFFL_SIR_GOPR1B_20171219T141720_20171219T141844_C001 CS_OFFL_SIR_GOPR1B_20171219T141720_20171219T141844_C001	Loss of Echo Loss of Echo Dess of Echo	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		
SS_OFFL_SIR_GOPN1B_20171219T152326_20171219T152540_C001 SS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 SS_OFFL_SIR_GOPN1B_20171219T155926_20171219T160437_C001 SS_OFFL_SIR_GOPN1B_20171219T155926_20171219T184031_C001 SS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 SS_OFFL_SIR_GOPN1B_20171219T191526_20171219T191952_C001 SS_OFFL_SIR_GOPN1B_20171219T233404_20171219T233912_C001 SS_OFFL_SIR_GOPR1B_20171219T00320_20171219T002019_C001 SS_OFFL_SIR_GOPR1B_20171219T030344_20171219T030450_C001 SS_OFFL_SIR_GOPR1B_20171219T042833_20171219T043359_C001 SS_OFFL_SIR_GOPR1B_20171219T042833_20171219T060719_C001 SS_OFFL_SIR_GOPR1B_20171219T141720_20171219T141844_C001 SS_OFFL_SIR_GOPR1B_20171219T141720_20171219T141844_C001 SS_OFFL_SIR_GOPR1B_20171219T141720_20171219T141844_C001	Loss of Echo Loss of Echo Dess of Echo	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		

Product	Test Failed
CS_OFFL_SIR_GOPR_2_20171219T010334_20171219T010336_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

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

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.

Product

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CS OFFL SIR GOPM 2 20171218T235037 20171219T001319 C001 CS_OFFL_SIR_GOPM_2_20171219T002257_20171219T002449_C001 CS OFFL SIR GOPM 2 20171219T003204 20171219T004637 C001 CS_OFFL_SIR_GOPM_2_20171219T005353_20171219T010242_C001 CS OFFL SIR GOPM 2 20171219T012056 20171219T013809 C001 CS OFFL SIR GOPM 2 20171219T014005 20171219T015427 C001 CS_OFFL_SIR_GOPM_2_20171219T020455_20171219T020902_C001 CS_OFFL_SIR_GOPM_2_20171219T021056_20171219T022617_C001 CS OFFL SIR GOPM 2 20171219T022818 20171219T023740 C001 CS_OFFL_SIR_GOPM_2_20171219T030450_20171219T031704_C001 CS OFFL SIR GOPM 2 20171219T032233 20171219T033618 C001 CS_OFFL_SIR_GOPM_2_20171219T033951_20171219T034804_C001 CS_OFFL_SIR_GOPM_2_20171219T035043_20171219T040618_C001 CS OFFL SIR GOPM 2 20171219T041039 20171219T041456 C001 CS OFFL SIR GOPM 2 20171219T044902 20171219T051528 C001 CS OFFL SIR GOPM 2 20171219T051840 20171219T052043 C001 CS OFFL SIR GOPM 2 20171219T052121 20171219T052638 C001 CS_OFFL_SIR_GOPM_2_20171219T052954_20171219T055432_C001 CS OFFL SIR GOPM 2 20171219T062715 20171219T063745 C001 CS_OFFL_SIR_GOPM_2_20171219T064324_20171219T065324_C001 CS_OFFL_SIR_GOPM_2_20171219T070047_20171219T070652_C001 CS_OFFL_SIR_GOPM_2_20171219T070908_20171219T073619_C001 CS OFFL SIR GOPM 2 20171219T074440 20171219T074643 C001 CS_OFFL_SIR_GOPM_2_20171219T080001_20171219T083247_C001 CS_OFFL_SIR_GOPM_2_20171219T083956_20171219T084523_C001 CS OFFL SIR GOPM 2 20171219T084843 20171219T085314 C001 CS_OFFL_SIR_GOPM_2_20171219T092405_20171219T092714_C001 CS_OFFL_SIR_GOPM_2_20171219T093917_20171219T094757_C001 CS OFFL SIR GOPM 2 20171219T095041 20171219T101240 C001 CS_OFFL_SIR_GOPM_2_20171219T101855_20171219T102000_C001 CS OFFL SIR GOPM 2 20171219T102003 20171219T102412 C001 CS OFFL SIR GOPM 2 20171219T102857 20171219T104550 C001 CS_OFFL_SIR_GOPM_2_20171219T111739_20171219T115111_C001 CS_OFFL_SIR_GOPM_2_20171219T115420_20171219T115857_C001 CS OFFL SIR GOPM 2 20171219T115916 20171219T120302 C001 CS_OFFL_SIR_GOPM_2_20171219T120959_20171219T124132_C001 CS OFFL SIR GOPM 2 20171219T125757 20171219T125925 C001 CS_OFFL_SIR_GOPM_2_20171219T125944_20171219T130834_C001 CS_OFFL_SIR_GOPM_2_20171219T131429_20171219T133044_C001 CS OFFL SIR GOPM 2 20171219T133238 20171219T133755 C001 CS_OFFL_SIR_GOPM_2_20171219T133830_20171219T134008_C001 CS_OFFL_SIR_GOPM_2_20171219T134813_20171219T140136_C001 CS OFFL SIR GOPM 2 20171219T140350 20171219T141720 C001 CS_OFFL_SIR_GOPM_2_20171219T141844_20171219T141954_C001 CS_OFFL_SIR_GOPM_2_20171219T144312_20171219T145335_C001 CS_OFFL_SIR_GOPM_2_20171219T145515_20171219T150925_C001 CS_OFFL_SIR_GOPM_2_20171219T151204_20171219T151706_C001 CS OFFL SIR GOPM 2 20171219T151743 20171219T151845 C001 CS_OFFL_SIR_GOPM_2_20171219T153142_20171219T153808_C001 CS_OFFL_SIR_GOPM_2_20171219T154257_20171219T154728_C001 **Test Failed** 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 Ocean Range Averaging Status Ice 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 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 Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status

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CS_OFFL_SIR_GOPM_2_20171219T155011_20171219T155559_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T162658_20171219T164822_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T170301_20171219T173120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T180317_20171219T182757_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T183015_20171219T183536_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T183543_20171219T183909_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T184305_20171219T185338_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T185916_20171219T191526_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T194010_20171219T195840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T200205_20171219T200649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T201015_20171219T201814_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T202250_20171219T205522_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T210848_20171219T210947_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T213040_20171219T214506_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T214948_20171219T215502_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T220134_20171219T222316_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T222601_20171219T223538_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T224846_20171219T225051_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T230602_20171219T231207_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T231354_20171219T232424_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T233127_20171219T233403_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T234100_20171220T001414_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171219T015559_20171219T015651_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171219T052043_20171219T052121_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171219T165638_20171219T165644_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171219T101241_20171219T101533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171219T102000_20171219T102003_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171219T133044_20171219T133101_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. 80

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171218T235037_20171219T001319_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_GOPM_2_20171219T002257_20171219T002449_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T003204_20171219T004637_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_GOPM_2_20171219T004730_20171219T004911_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_GOPM_2_20171219T005353_20171219T010242_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_GOPM_2_20171219T012056_20171219T013809_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_GOPM_2_20171219T014005_20171219T015427_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_GOPM_2_20171219T020455_20171219T020902_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T021056_20171219T022617_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_GOPM_2_20171219T022818_20171219T023740_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_GOPM_2_20171219T030450_20171219T031704_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_GOPM_2_20171219T032233_20171219T033618_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_GOPM_2_20171219T033951_20171219T034804_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T035043_20171219T040618_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_GOPM_2_20171219T044902_20171219T051528_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_GOPM_2_20171219T052121_20171219T052638_C001 CS OFFL SIR GOPM 2 20171219T052954 20171219T055432 C001 CS_OFFL_SIR_GOPM_2_20171219T062715_20171219T063745_C001 CS_OFFL_SIR_GOPM_2_20171219T064324_20171219T065324_C001 CS_OFFL_SIR_GOPM_2_20171219T070047_20171219T070652_C001 CS_OFFL_SIR_GOPM_2_20171219T070908_20171219T073619_C001 CS OFFL SIR GOPM 2 20171219T074440 20171219T074643 C001 CS OFFL SIR GOPM 2 20171219T080001 20171219T083247 C001 CS_OFFL_SIR_GOPM_2_20171219T083956_20171219T084523_C001 CS_OFFL_SIR_GOPM_2_20171219T084843_20171219T085314_C001 CS_OFFL_SIR_GOPM_2_20171219T092405_20171219T092714_C001 CS_OFFL_SIR_GOPM_2_20171219T093917_20171219T094757_C001 CS_OFFL_SIR_GOPM_2_20171219T095041_20171219T101240_C001 CS_OFFL_SIR_GOPM_2_20171219T101855_20171219T102000_C001 CS_OFFL_SIR_GOPM_2_20171219T102003_20171219T102412_C001 CS OFFL SIR GOPM 2 20171219T102857 20171219T104550 C001 CS_OFFL_SIR_GOPM_2_20171219T111739_20171219T115111_C001 CS_OFFL_SIR_GOPM_2_20171219T115420_20171219T115857_C001 CS_OFFL_SIR_GOPM_2_20171219T115916_20171219T120302_C001 CS_OFFL_SIR_GOPM_2_20171219T120959_20171219T124132_C001 CS_OFFL_SIR_GOPM_2_20171219T125757_20171219T125925_C001 CS OFFL SIR GOPM 2 20171219T125944 20171219T130834 C001 CS_OFFL_SIR_GOPM_2_20171219T131429_20171219T133044_C001 CS OFFL SIR GOPM 2 20171219T133238 20171219T133755 C001 CS OFFL SIR GOPM 2 20171219T133830 20171219T134008 C001 CS OFFL SIR GOPM 2 20171219T134813 20171219T140136 C001 CS_OFFL_SIR_GOPM_2_20171219T140350_20171219T141720_C001 CS_OFFL_SIR_GOPM_2_20171219T141844_20171219T141954_C001 CS_OFFL_SIR_GOPM_2_20171219T144312_20171219T145335_C001 CS OFFL SIR GOPM 2 20171219T145515 20171219T150925 C001 CS_OFFL_SIR_GOPM_2_20171219T151204_20171219T151706_C001 CS_OFFL_SIR_GOPM_2_20171219T151713_20171219T151724_C001 CS OFFL SIR GOPM 2 20171219T151743 20171219T151845 C001 CS_OFFL_SIR_GOPM_2_20171219T152540_20171219T152646_C001 CS_OFFL_SIR_GOPM_2_20171219T153142_20171219T153808_C001 CS OFFL SIR GOPM 2 20171219T154257 20171219T154728 C001 CS_OFFL_SIR_GOPM_2_20171219T155011_20171219T155559_C001 CS OFFL SIR GOPM 2 20171219T162658 20171219T164822 C001 CS OFFL SIR GOPM 2 20171219T165629 20171219T165638 C001 CS_OFFL_SIR_GOPM_2_20171219T170301_20171219T173120_C001 CS_OFFL_SIR_GOPM_2_20171219T180317_20171219T182757_C001 CS OFFL SIR GOPM 2 20171219T183015 20171219T183536 C001 CS_OFFL_SIR_GOPM_2_20171219T183543_20171219T183909_C001 CS_OFFL_SIR_GOPM_2_20171219T184305_20171219T185338_C001 CS_OFFL_SIR_GOPM_2_20171219T185916_20171219T191526_C001 CS_OFFL_SIR_GOPM_2_20171219T194010_20171219T195840_C001 CS OFFL SIR GOPM 2 20171219T200205 20171219T200649 C001 CS_OFFL_SIR_GOPM_2_20171219T201015_20171219T201814_C001 CS_OFFL_SIR_GOPM_2_20171219T202250_20171219T205522_C001 CS OFFL SIR GOPM 2 20171219T210848 20171219T210947 C001 CS_OFFL_SIR_GOPM_2_20171219T213040_20171219T214506_C001 Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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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 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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.

CS_OFFL_SIR_GOPM_2_20171219T214948_20171219T215502_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T220134_20171219T222316_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_GOPM_2_20171219T222601_20171219T223538_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_GOPM_2_20171219T224846_20171219T225051_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_GOPM_2_20171219T230602_20171219T231207_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_GOPM_2_20171219T231354_20171219T232424_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_GOPM_2_20171219T233127_20171219T233403_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171219T234100_20171220T001414_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_GOPN_2_20171219T015559_20171219T015651_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_GOPN_2_20171219T052043_20171219T052121_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171219T165638_20171219T165644_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171219T101241_20171219T101533_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_GOPR_2_20171219T102000_20171219T102003_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171219T133044_20171219T133101_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 59

	6. GOP L2 Pole-to-Pole Data Quality Check
6.1 P2P Product Format Che	ck
Each product, retrieved and unpacked fror	n 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:	0
6.2 P2P Product Header Ana	lysis
For all products, a series of pre-defined ch	ecks 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
6.3 P2P Auxiliary Data File U	sage 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
6.4 P2P Auxiliary Correction	Error Check
For all products, the auxiliary corrections w	vithin the Geophysical Group are checked for the default error value (32767).
Number of products with errors:	0
6.5 P2P Measurement Confid	lence Data Check
CryoSat P2P data includes a measuremer	t confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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.

Number of	products with	errors:

Number of products with errors: 30		
Product	Test Failed	Description
 CS_OFFL_SIR_GOP_220171218T233442_20171219T002420_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_220171219T002420_20171219T011356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T011356_20171219T020333_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_220171219T020333_20171219T025309_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_220171219T025309_20171219T034247_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T034247_20171219T043223_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_220171219T043223_20171219T052201_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_220171219T052201_20171219T061137_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_220171219T061137_20171219T070114_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T070114_20171219T075050_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_2_20171219T075050_20171219T084028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220171219T084028_20171219T093004_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_220171219T093004_20171219T101942_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_220171219T101942_20171219T110917_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_220171219T110917_20171219T115855_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_220171219T115855_20171219T124831_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_220171219T124831_20171219T133809_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_220171219T133809_20171219T142744_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_220171219T142744_20171219T151722_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_220171219T151722_20171219T160658_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_220171219T160658_20171219T165636_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_220171219T165636_20171219T174612_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T174612_20171219T183549_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_220171219T183549_20171219T192525_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_220171219T192525_20171219T201503_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_220171219T201503_20171219T210439_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T210439_20171219T215417_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_220171219T215417_20171219T224352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T224352_20171219T233330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T233330_20171220T002306_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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171218T233442_20171219T002420_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_20171219T002420_20171219T011356_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_20171219T011356_20171219T020333_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_20171219T020333_20171219T025309_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_20171219T025309_20171219T034247_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_20171219T034247_20171219T043223_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_20171219T043223_20171219T052201_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_20171219T052201_20171219T061137_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_20171219T061137_20171219T070114_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_20171219T070114_20171219T075050_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_20171219T075050_20171219T084028_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_20171219T084028_20171219T093004_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_20171219T093004_20171219T101942_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_20171219T101942_20171219T110917_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_20171219T110917_20171219T115855_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_20171219T115855_20171219T124831_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_20171219T124831_20171219T133809_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_220171219T133809_20171219T142744_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_220171219T142744_20171219T151722_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_20171219T151722_20171219T160658_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_20171219T160658_20171219T165636_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_20171219T165636_20171219T174612_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_220171219T174612_20171219T183549_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_220171219T183549_20171219T192525_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_220171219T192525_20171219T201503_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_220171219T201503_20171219T210439_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_20171219T210439_20171219T215417_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_20171219T215417_20171219T224352_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_20171219T224352_20171219T233330_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_220171219T233330_20171220T002306_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

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

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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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171219T002420_20171219T011356_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T011356_20171219T020333_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T020333_20171219T025309_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T025309_20171219T034247_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T034247_20171219T043223_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T043223_20171219T052201_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T052201_20171219T061137_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T061137_20171219T070114_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T070114_20171219T075050_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T075050_20171219T084028_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T084028_20171219T093004_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T093004_20171219T101942_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T101942_20171219T110917_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T110917_20171219T115855_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T124831_20171219T133809_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T133809_20171219T142744_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T142744_20171219T151722_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T151722_20171219T160658_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T160658_20171219T165636_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T165636_20171219T174612_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T174612_20171219T183549_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T183549_20171219T192525_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171219T192525_20171219T201503_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T201503_20171219T210439_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T210439_20171219T215417_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T215417_20171219T224352_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171219T233330_20171220T002306_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.