

IDEAS+ Daily Report for GOP data:

<u>21/12/2017</u>



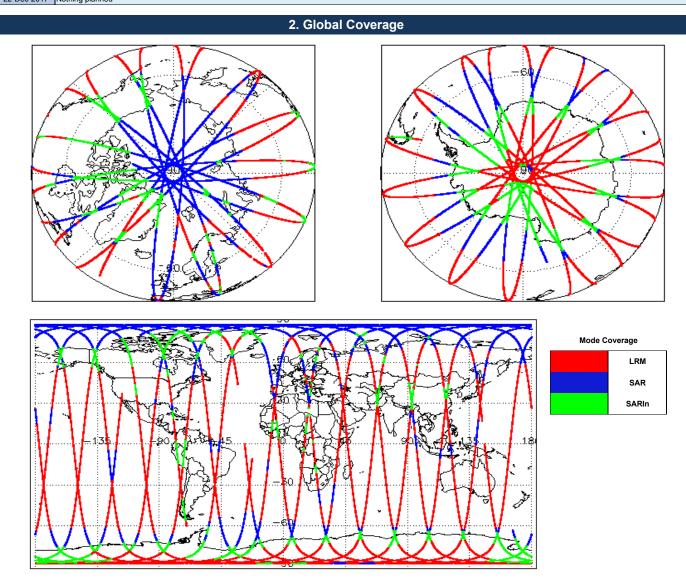
1. Overview				
Devent Dreductions	14 Eab 2010	Check	L1 & L2	P2P
Report Production:	14-Feb-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Product Software Check	Nominal	Nominal
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 4.6	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

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

21-Dec-2017 None

22-Dec-2017 Nothing planned



3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. 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 pre-	-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	I. The bit value of this flag indicat	es any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurem	ent record. The bit value of this f	ag 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.	. The bit value of this flag indicate	es any problems when set.
.oss of Echo Flag: This flag is currently set for products over land, but this is t	to be expected.	
Number of products with errors: 14		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20171221T031958_20171221T033352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171221T140124_20171221T141454_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T011308_20171221T011428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T025220_20171221T025326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T052407_20171221T052648_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T060449_20171221T060519_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T110244_20171221T110521_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T141822_20171221T141911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171221T142121_20171221T142336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171221T001054_20171221T001753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171221T091725_20171221T092009_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 GOPR1B 20171221T133942 20171221T134539 C001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records
	I	
5. GC	P Level 2 Data Qu	ality Check
5.1 L2 Product Format Check		
	nsure it consists of both an XML	neader file (.HDR) and a binary product file (.DBL).
Each product, retrieved and unpacked from the science server, is checked to er	nsure it consists of both an XML	neader file (.HDR) and a binary product file (.DBL).
Each product, retrieved and unpacked from the science server, is checked to er Number of products with errors: 0	nsure it consists of both an XML	header file (.HDR) and a binary product file (.DBL).
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 0 5.2 L2 Product Header Analysis		
Each product, retrieved and unpacked from the science server, is checked to en 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		
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0		
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check	SPH in order to identify any incc	nsistencies and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-	SPH in order to identify any incc	nsistencies and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0	SPH in order to identify any incc	nsistencies and/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check	SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and 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- Number of products with errors: 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che	SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che- Number of products with errors: 0	SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors: 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are chener of products with errors: 0 5.4 L2 Measurement Confidence Data Check	SPH in order to identify any inco determined baseline and also to cked for the default error value (nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas	SPH in order to identify any inco determined baseline and also to cked for the default error value (nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct.
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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are cher Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas Number of products with errors: 0	SPH in order to identify any inco determined baseline and also to cked for the default error value (nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas	SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct. 22767).
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas Number of products with errors: 0 5.6 L2 Range Measurement Check CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for eac Currently, there are two common status flags raised in the Level 2 produc	SPH in order to identify any inco determined baseline and also to cked for the default error value (urement record. The bit value of ach measurement record. The bit	nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct. 22767).
Each product, retrieved and unpacked from the science server, is checked to en 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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas Number of products with errors: 0 5.6 L2 Range Measurement Check CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each 20-Hz	SPH in order to identify any inco determined baseline and also to cked for the default error value (urement record. The bit value of ach measurement record. The bit its which are expected due to s	nsistencies and/or errors raised by the ground-segment processing chain. check the validity of Auxiliary Data Files is correct. 2767). this flag indicates any problems when set. value of this flag indicates any problems when set. urface type. All common flags are summarised in the list below, followed by a

Number o	f products	with errors:	
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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171220T234758_20171221T001054_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T002030_20171221T002223_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T002938_20171221T004427_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20171221T005126_20171221T010015_C001 CS OFFL SIR GOPM 2 20171221T011429 20171221T011706 C001 CS_OFFL_SIR_GOPM_2_20171221T011840_20171221T013534_C001 CS_OFFL_SIR_GOPM_2_20171221T013739_20171221T015208_C001 CS_OFFL_SIR_GOPM_2_20171221T015926_20171221T020134_C001 CS_OFFL_SIR_GOPM_2_20171221T020226_20171221T020636_C001 CS OFFL SIR GOPM 2 20171221T020829 20171221T022350 C001 CS OFFL SIR GOPM 2 20171221T022551 20171221T023512 C001 CS_OFFL_SIR_GOPM_2_20171221T030228_20171221T031438_C001 CS_OFFL_SIR_GOPM_2_20171221T031958_20171221T033352_C001 CS OFFL SIR GOPM 2 20171221T033722 20171221T034538 C001 CS_OFFL_SIR_GOPM_2_20171221T034817_20171221T040415_C001 CS OFFL SIR GOPM 2 20171221T040708 20171221T040919 C001 CS_OFFL_SIR_GOPM_2_20171221T044633_20171221T045005_C001 CS_OFFL_SIR_GOPM_2_20171221T045008_20171221T051300_C001 CS OFFL SIR GOPM 2 20171221T051857 20171221T052407 C001 CS_OFFL_SIR_GOPM_2_20171221T052727_20171221T055209_C001 CS_OFFL_SIR_GOPM_2_20171221T062403_20171221T063519_C001 CS_OFFL_SIR_GOPM_2_20171221T064058_20171221T065056_C001 CS_OFFL_SIR_GOPM_2_20171221T065821_20171221T070424_C001 CS_OFFL_SIR_GOPM_2_20171221T070642_20171221T073452_C001 CS OFFL SIR GOPM 2 20171221T074213 20171221T074417 C001 CS_OFFL_SIR_GOPM_2_20171221T075728_20171221T083023_C001 CS OFFL SIR GOPM 2 20171221T083729 20171221T084255 C001 CS OFFL SIR GOPM 2 20171221T084620 20171221T085048 C001 CS OFFL SIR GOPM 2 20171221T092113 20171221T092446 C001 CS_OFFL_SIR_GOPM_2_20171221T093650_20171221T094530_C001 CS_OFFL_SIR_GOPM_2_20171221T094815_20171221T101012_C001 CS_OFFL_SIR_GOPM_2_20171221T101737_20171221T102146_C001 CS OFFL SIR GOPM 2 20171221T102631 20171221T104322 C001 CS_OFFL_SIR_GOPM_2_20171221T111515_20171221T114844_C001 CS_OFFL_SIR_GOPM_2_20171221T115144_20171221T115630_C001 CS OFFL SIR GOPM 2 20171221T115650 20171221T120027 C001 CS_OFFL_SIR_GOPM_2_20171221T120732_20171221T122120_C001 CS_OFFL_SIR_GOPM_2_20171221T123328_20171221T123904_C001 CS OFFL SIR GOPM 2 20171221T125750 20171221T130608 C001 CS_OFFL_SIR_GOPM_2_20171221T131049_20171221T132819_C001 CS OFFL SIR GOPM 2 20171221T133013 20171221T133528 C001 CS OFFL SIR GOPM 2 20171221T134539 20171221T135910 C001 CS_OFFL_SIR_GOPM_2_20171221T140124_20171221T141454_C001 CS_OFFL_SIR_GOPM_2_20171221T144047_20171221T145109_C001 CS OFFL SIR GOPM 2 20171221T145249 20171221T150659 C001 CS_OFFL_SIR_GOPM_2_20171221T150937_20171221T151439_C001 CS_OFFL_SIR_GOPM_2_20171221T151517_20171221T151619_C001 CS_OFFL_SIR_GOPM_2_20171221T152314_20171221T152428_C001 CS_OFFL_SIR_GOPM_2_20171221T152833_20171221T153555_C001 CS OFFL SIR GOPM 2 20171221T154013 20171221T154501 C001 CS_OFFL_SIR_GOPM_2_20171221T162347_20171221T164613_C001 CS_OFFL_SIR_GOPM_2_20171221T165417_20171221T165701_C001 CS OFFL SIR GOPM 2 20171221T170035 20171221T172855 C001 CS_OFFL_SIR_GOPM_2_20171221T180043_20171221T182530_C001 Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status 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 Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging 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CS_OFFL_SIR_GOPM_2_20171221T182750_20171221T183309_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T183316_20171221T183643_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T184042_20171221T185112_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T185650_20171221T191310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T193720_20171221T195547_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T195940_20171221T200422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T200751_20171221T201546_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T202022_20171221T205255_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T210623_20171221T210720_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T212823_20171221T214239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T214722_20171221T215236_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T215906_20171221T222050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T222334_20171221T223310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T224626_20171221T224734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T230332_20171221T230940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T231128_20171221T232158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171221T011707_20171221T011823_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171221T084255_20171221T084413_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171221T124318_20171221T124422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20171221T165411_20171221T165417_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T001054_20171221T001753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T020813_20171221T020828_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T040415_20171221T040708_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T151440_20171221T151446_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T164613_20171221T164655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T192544_20171221T192751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T201700_20171221T202021_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. 76

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171220T234758_20171221T001054_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_20171221T002030_20171221T002223_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T002938_20171221T004427_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_20171221T005126_20171221T010015_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_20171221T011429_20171221T011706_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T011840_20171221T013534_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_20171221T013739_20171221T015208_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_20171221T015926_20171221T020134_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T020226_20171221T020636_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T020829_20171221T022350_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_20171221T022551_20171221T023512_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_20171221T030228_20171221T031438_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_20171221T031958_20171221T033352_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_20171221T033722_20171221T034538_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171221T034817_20171221T040415_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_20171221T040708_20171221T040919_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_20171221T044633_20171221T045005_C001 CS_OFFL_SIR_GOPM_2_20171221T045008_20171221T051300_C001 CS_OFFL_SIR_GOPM_2_20171221T051857_20171221T052407_C001 CS_OFFL_SIR_GOPM_2_20171221T052727_20171221T055209_C001 CS OFFL SIR GOPM 2 20171221T062403 20171221T063519 C001 CS_OFFL_SIR_GOPM_2_20171221T064058_20171221T065056_C001 CS OFFL SIR GOPM 2 20171221T065821 20171221T070424 C001 CS OFFL SIR GOPM 2 20171221T070642 20171221T073452 C001 CS_OFFL_SIR_GOPM_2_20171221T074213_20171221T074417_C001 CS_OFFL_SIR_GOPM_2_20171221T075728_20171221T083023_C001 CS_OFFL_SIR_GOPM_2_20171221T083729_20171221T084255_C001 CS_OFFL_SIR_GOPM_2_20171221T084620_20171221T085048_C001 CS OFFL SIR GOPM 2 20171221T092113 20171221T092446 C001 CS_OFFL_SIR_GOPM_2_20171221T093650_20171221T094530_C001 CS_OFFL_SIR_GOPM_2_20171221T094815_20171221T101012_C001 CS OFFL SIR GOPM 2 20171221T101737 20171221T102146 C001 CS_OFFL_SIR_GOPM_2_20171221T102631_20171221T104322_C001 CS_OFFL_SIR_GOPM_2_20171221T111515_20171221T114844_C001 CS OFFL SIR GOPM 2 20171221T115144 20171221T115630 C001 CS_OFFL_SIR_GOPM_2_20171221T120732_20171221T122120_C001 CS_OFFL_SIR_GOPM_2_20171221T123328_20171221T123904_C001 CS OFFL SIR GOPM 2 20171221T125750 20171221T130608 C001 CS_OFFL_SIR_GOPM_2_20171221T131049_20171221T132819_C001 CS OFFL SIR GOPM 2 20171221T133013 20171221T133528 C001 CS OFFL SIR GOPM 2 20171221T134539 20171221T135910 C001 CS OFFL SIR GOPM 2 20171221T140124 20171221T141454 C001 CS_OFFL_SIR_GOPM_2_20171221T145249_20171221T150659_C001 CS_OFFL_SIR_GOPM_2_20171221T150937_20171221T151439_C001 CS_OFFL_SIR_GOPM_2_20171221T152314_20171221T152428_C001 CS OFFL SIR GOPM 2 20171221T152833 20171221T153555 C001 CS_OFFL_SIR_GOPM_2_20171221T154013_20171221T154501_C001 CS_OFFL_SIR_GOPM_2_20171221T162347_20171221T164613_C001 CS OFFL SIR GOPM 2 20171221T165417 20171221T165701 C001 CS_OFFL_SIR_GOPM_2_20171221T170035_20171221T172855_C001 CS_OFFL_SIR_GOPM_2_20171221T180043_20171221T182530_C001 CS OFFL SIR GOPM 2 20171221T182750 20171221T183309 C001 CS_OFFL_SIR_GOPM_2_20171221T183316_20171221T183643_C001 CS_OFFL_SIR_GOPM_2_20171221T184042_20171221T185112_C001 CS OFFL SIR GOPM 2 20171221T185650 20171221T191310 C001 CS OFFL SIR GOPM 2 20171221T195940 20171221T200422 C001 CS_OFFL_SIR_GOPM_2_20171221T200751_20171221T201546_C001 CS_OFFL_SIR_GOPM_2_20171221T202022_20171221T205255_C001 CS_OFFL_SIR_GOPM_2_20171221T210623_20171221T210720_C001 CS_OFFL_SIR_GOPM_2_20171221T212823_20171221T214239_C001 CS_OFFL_SIR_GOPM_2_20171221T214722_20171221T215236_C001 CS_OFFL_SIR_GOPM_2_20171221T215906_20171221T222050_C001 CS OFFL SIR GOPM 2 20171221T222334 20171221T223310 C001 CS_OFFL_SIR_GOPM_2_20171221T230332_20171221T230940_C001 CS_OFFL_SIR_GOPM_2_20171221T231128_20171221T232158_C001 CS OFFL SIR GOPN 2 20171221T011707 20171221T011823 C001 CS OFFL SIR GOPN 2 20171221T084255 20171221T084413 C001

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

Ice Backscatter Averaging Status

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

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

Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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 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_GOPN_2_20171221T124318_20171221T124422_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_20171221T165411_20171221T165417_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T001054_20171221T001753_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_20171221T020813_20171221T020828_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_20171221T040415_20171221T040708_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_20171221T151440_20171221T151446_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20171221T164613_20171221T164655_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_20171221T192544_20171221T192751_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_20171221T201700_20171221T202021_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: 55

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. 0 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: 0

6.4 P2P Auxiliary Correction Error Check

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

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Range Measurement Check

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

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

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

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

Number of products with errors:

Test Failed	Description
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
Range Averaging Status	or more records.
	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

CS_OFFL_SIR_GOP_220171221T124605_20171221T133543_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_220171221T133543_20171221T142518_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_220171221T142518_20171221T151456_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_220171221T151456_20171221T160432_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_220171221T160432_20171221T165410_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_220171221T165410_20171221T174345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T174345_20171221T183324_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_220171221T183324_20171221T192259_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_220171221T192259_20171221T201237_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_220171221T201237_20171221T210213_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T210213_20171221T215151_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_220171221T215151_20171221T224126_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_20171221T224126_20171221T233104_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171220T233216_20171221T002154_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_20171221T002154_20171221T011129_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_20171221T011129_20171221T020107_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_20171221T020107_20171221T025043_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_20171221T025043_20171221T034021_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_20171221T034021_20171221T042957_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_20171221T042957_20171221T051935_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_20171221T051935_20171221T060910_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_20171221T060910_20171221T065848_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_20171221T065848_20171221T074824_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_20171221T074824_20171221T083802_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_20171221T083802_20171221T092738_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_20171221T092738_20171221T101716_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_20171221T101716_20171221T110651_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_20171221T110651_20171221T115629_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_20171221T115629_20171221T124605_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_20171221T124605_20171221T133543_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_20171221T133543_20171221T142518_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_20171221T142518_20171221T151456_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_20171221T151456_20171221T160432_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_20171221T160432_20171221T165410_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_220171221T165410_20171221T174345_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_220171221T174345_20171221T183324_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_220171221T183324_20171221T192259_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_220171221T192259_20171221T201237_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_220171221T201237_20171221T210213_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_220171221T210213_20171221T215151_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_220171221T215151_20171221T224126_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_220171221T224126_20171221T233104_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.

27

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.

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171221T002154_20171221T011129_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T011129_20171221T020107_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T020107_20171221T025043_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T025043_20171221T034021_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T034021_20171221T042957_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T042957_20171221T051935_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T060910_20171221T065848_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T065848_20171221T074824_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T074824_20171221T083802_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T083802_20171221T092738_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T092738_20171221T101716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T101716_20171221T110651_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T110651_20171221T115629_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T115629_20171221T124605_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T124605_20171221T133543_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T133543_20171221T142518_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T142518_20171221T151456_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T151456_20171221T160432_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T160432_20171221T165410_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T165410_20171221T174345_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T174345_20171221T183324_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T183324_20171221T192259_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T192259_20171221T201237_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171221T201237_20171221T210213_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T210213_20171221T215151_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T215151_20171221T224126_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171221T224126_20171221T233104_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.