

IDEAS+ Daily Report for GOP data:

25/12/2017



		1. Overview		
		Check	L1 & L2	P2P
eport Production:	02-Feb-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	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 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
4-Dec-2017 None 5-Dec-2017 None 6-Dec-2017 Nothing	planned	2. Global Coverage		
				lode Coverage

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

4.3 L1B Auxilary 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:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

0

0

67

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product CS_OFFL_SIR_GOPM1B_20171225T134033_20171225T135416_C001	Test Failed Power scaling error	Description There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_GOPR1B_20171225T002358_20171225T002440_C001	Attitude correction missing	records The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T005523_20171225T005526_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T005529_20171225T005539_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T005541_20171225T005547_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T005557_20171225T005601_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR GOPR1B 20171225T005628 20171225T005721 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T005724_20171225T005727_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR GOPR1B 20171225T005731 20171225T005735 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T005738_20171225T005759_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR GOPR1B 20171225T011352 20171225T011421 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T013033_20171225T013247_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR GOPR1B 20171225T014729 20171225T014815 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_201712251014725_201712251014015_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_201712251014930_201712251013013_0001	_	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_201712251021896_201712251022056_C001	Attitude correction missing	The attitude has not been corrected
	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T024413_20171225T024729_C001	Attitude correction missing	
CS_OFFL_SIR_GOPR1B_20171225T025001_20171225T025151_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T032902_20171225T033030_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T034235_20171225T034324_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T040007_20171225T040138_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T042049_20171225T042642_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T043144_20171225T043443_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T044015_20171225T044146_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T052137_20171225T052233_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T055752_20171225T055945_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T060020_20171225T060135_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T060156_20171225T060702_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T061935_20171225T062032_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T082535_20171225T082916_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T083919_20171225T084145_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T091234_20171225T091452_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T093124_20171225T093149_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T100517_20171225T100811_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T101817_20171225T102140_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T103158_20171225T103345_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T104617_20171225T105249_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T105249_20171225T105502_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T110028_20171225T110820_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T110939_20171225T111027_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T115138_20171225T115144_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T115651_20171225T115831_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T123356_20171225T123415_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T124524_20171225T124647_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T124925_20171225T125216_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T130117_20171225T130557_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T133049_20171225T133055_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T135419_20171225T135631_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T141004_20171225T141256_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T150208_20171225T150258_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T150947_20171225T150953_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T154131_20171225T154252_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T154911_20171225T155219_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T155711_20171225T160232_C001	Attitude correction missing	The attitude has not been corrected
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CS_OFFL_SIR_GOPR1B_20171225T160255_20171225T160353_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T161749_20171225T161855_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T164124_20171225T164203_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T165426_20171225T165544_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T173533_20171225T174237_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T182037_20171225T182124_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T183316_20171225T183555_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T184620_20171225T185158_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T194958_20171225T195451_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T210343_20171225T210412_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T211021_20171225T211341_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T213745_20171225T214104_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_GOPR1B_20171225T215046_20171225T215410_C001	Attitude correction missing	The attitude has not been corrected
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4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors: 25

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20171225T031449_20171225T032902_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171225T073719_20171225T073924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171225T135631_20171225T141003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171225T201526_20171225T204804_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20171225T233346_20171226T000640_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T010813_20171225T010934_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T011224_20171225T011352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T024914_20171225T025001_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T042642_20171225T043144_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T055945_20171225T060019_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T060136_20171225T060156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T105502_20171225T105522_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T105738_20171225T110028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T141627_20171225T141753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T141753_20171225T141842_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T183151_20171225T183316_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20171225T192014_20171225T192049_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T025001_20171225T025151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T025358_20171225T025745_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T041938_20171225T042049_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T043144_20171225T043443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T091943_20171225T092804_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T144617_20171225T144757_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T155223_20171225T155257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20171225T174237_20171225T174522_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

0

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:
1

Product
Test Failed

CS_OFFL_SIR_GOPR_2_20171225T005557_20171225T005601_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).

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 measurement record. The bit value of this flag indicates any problems when set.

Product

Test Failed

CS_OFFL_SIR_GOPM_2_20171225T134033_20171225T135416_C001

Power scaling error

Description

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.

1

Number of products with errors:	89

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20171224T234307_20171225T000603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T001538_20171225T001731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T002440_20171225T004009_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T004012_20171225T004153_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T004634_20171225T005453_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T010934_20171225T011224_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T011421_20171225T013032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T013247_20171225T014729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T015432_20171225T015642_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T015729_20171225T020145_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T020338_20171225T021856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T022056_20171225T023016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T025745_20171225T030946_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T031449_20171225T032902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T033225_20171225T034046_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T034324_20171225T040007_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T040138_20171225T040440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T044147_20171225T044521_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T044525_20171225T050803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T051123_20171225T051321_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T051407_20171225T051907_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T052234_20171225T054737_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T062033_20171225T063028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T063606_20171225T064600_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T065048_20171225T065126_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T065329_20171225T065929_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T070150_20171225T072954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T073719_20171225T073924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T075223_20171225T082535_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T083237_20171225T083800_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T084145_20171225T084555_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T091601_20171225T091943_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T093149_20171225T094037_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T094322_20171225T100517_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T101245_20171225T101653_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T102140_20171225T103158_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T103345_20171225T103847_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T111027_20171225T114352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T114640_20171225T115138_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T115158_20171225T115519_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T120238_20171225T123356_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20171225T125238_20171225T130116_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20171225T130711_20171225T132328_C001 CS OFFL SIR GOPM 2 20171225T132524 20171225T133035 C001 CS_OFFL_SIR_GOPM_2_20171225T134033_20171225T135416_C001 CS_OFFL_SIR_GOPM_2_20171225T135631_20171225T141003_C001 CS_OFFL_SIR_GOPM_2_20171225T143558_20171225T144617_C001 CS_OFFL_SIR_GOPM_2_20171225T144757_20171225T150207_C001 CS OFFL SIR GOPM 2 20171225T150445 20171225T150946 C001 CS OFFL SIR GOPM 2 20171225T150953 20171225T151005 C001 CS_OFFL_SIR_GOPM_2_20171225T151011_20171225T151020_C001 CS_OFFL_SIR_GOPM_2_20171225T151822_20171225T151952_C001 CS OFFL SIR GOPM 2 20171225T152217 20171225T153207 C001 CS_OFFL_SIR_GOPM_2_20171225T153501_20171225T154009_C001 CS_OFFL_SIR_GOPM_2_20171225T161855_20171225T164124_C001 CS_OFFL_SIR_GOPM_2_20171225T165544_20171225T172403_C001 CS_OFFL_SIR_GOPM_2_20171225T175533_20171225T182037_C001 CS OFFL SIR GOPM 2 20171225T182302 20171225T182817 C001 CS_OFFL_SIR_GOPM_2_20171225T182823_20171225T183150_C001 CS_OFFL_SIR_GOPM_2_20171225T183556_20171225T184620_C001 CS_OFFL_SIR_GOPM_2_20171225T185158_20171225T190836_C001 CS_OFFL_SIR_GOPM_2_20171225T193132_20171225T194958_C001 CS_OFFL_SIR_GOPM_2_20171225T195452_20171225T195929_C001 CS OFFL SIR GOPM 2 20171225T200302 20171225T200851 C001 CS_OFFL_SIR_GOPM_2_20171225T201526_20171225T204804_C001 CS OFFL SIR GOPM 2 20171225T210133 20171225T210229 C001 CS OFFL SIR GOPM 2 20171225T212349 20171225T213745 C001 CS OFFL SIR GOPM 2 20171225T214231 20171225T214743 C001 CS_OFFL_SIR_GOPM_2_20171225T215410_20171225T221556_C001 CS_OFFL_SIR_GOPM_2_20171225T221841_20171225T222813_C001 CS_OFFL_SIR_GOPM_2_20171225T223927_20171225T224034_C001 CS OFFL SIR GOPM 2 20171225T225833 20171225T231707 C001 CS_OFFL_SIR_GOPM_2_20171225T232422_20171225T232644_C001 CS_OFFL_SIR_GOPM_2_20171225T233346_20171226T000640_C001 CS OFFL SIR GOPN 2 20171225T001731 20171225T002357 C001 CS_OFFL_SIR_GOPN_2_20171225T082916_20171225T083237_C001 CS OFFL SIR GOPN 2 20171225T083801 20171225T083919 C001 CS OFFL SIR GOPN 2 20171225T124512 20171225T124524 C001 CS_OFFL_SIR_GOPN_2_20171225T164919_20171225T164924_C001 CS OFFL SIR GOPN 2 20171225T165222 20171225T165426 C001 CS OFFL SIR GOPN 2 20171225T205138 20171225T205147 C001 CS_OFFL_SIR_GOPR_2_20171225T020320_20171225T020338_C001 CS_OFFL_SIR_GOPR_2_20171225T024413_20171225T024729_C001 CS OFFL SIR GOPR 2 20171225T123356 20171225T123415 C001 CS_OFFL_SIR_GOPR_2_20171225T123928_20171225T124512_C001 CS_OFFL_SIR_GOPR_2_20171225T150208_20171225T150258_C001 CS_OFFL_SIR_GOPR_2_20171225T150947_20171225T150953_C001 CS_OFFL_SIR_GOPR_2_20171225T201206_20171225T201526_C001 CS OFFL SIR GOPR 2 20171225T221557 20171225T221840 C001

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

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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.

 Number of products with errors:
 88

Optional Decision 2017 2017 2017 2017 2017 2017 2017 2017	Product	Test Failed	Description
City City City City City City City City		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
City True Jong Contug, Junit 2007 1000 1000 11200 2001 PMI Analyzing Status, Colean The SMI and Conter Analyzing Status Heap have tens of the nor of landscature Analyzing Status. The SMI and Conter Analyzing Status Heap have tens of the nor of landscature Analyzing Status. The SMI and Conter Analyzing Status Heap have tens of the nor of landscature Analyzing Status. The SMI and Conter Analyzing Status. The SM	CS OFFL SIR GOPM 2 20171225T001538 20171225T001731 C001		The Ice Backscatter Averaging Status Flag has been set for one or more
Scipertugen, george gate, and energing states Scipertugen, george gate, and energing states Scipertugen, george gates and energing states Science and energing		SWH Averaging Status, Ocean	
 Cu, Om. Jun. (Com. Jun. (Com. Jun. (Com. Amaging State. Tags) have been set for ore of baselet Amaging State. Use in the Soft and Come Amaging State. Tags have been set for ore of the set of the s			
 Belger Lin, Derge Gall, Service S			
Col, Dira, Sin, Cork, 2011/2010/08/2, 2011/225108/2, 2011/225108/2, 2	CS_OFFL_SIR_GOPM_2_201712251004634_201712251005453_C001		more records.
Cale Processing Construction Construction Description Description Construction Construction For Based and Averaging Status The Soft Averaging Status	CS_OFFL_SIR_GOPM_2_20171225T010934_20171225T011224_C001		records.
Colored Section Control Colored Sectio	CS_OFFL_SIR_GOPM_2_20171225T011421_20171225T013032_C001		more records.
Califord, Der Login, Califord, 2001 102101 (2010) Bit Relational Amerging Balas, Cenner Presents. CS, OFT, US, GON, 2, 2017/2210034, 2017/2210246, 2017 (2010) SWI Averaging Balas, Cenner The SWI and Dean Averaging Balas, Cenner The SWI and Dean Averaging Balas, Cenner CS, OFT, US, GON, 2, 2017/2210344, 2017/22103444, 2017/22103444, 2017/22103444, 2017/22103444, 2017/22103444, 2017/22103444, 2017/2210444, 2017/2210444, 2017/2210444, 2017/2210444, 2017/2210444, 2017/2210444, 2017/22104	CS_OFFL_SIR_GOPM_2_20171225T015432_20171225T015642_C001	Ice Backscatter Averaging Status	
Badacatab Awanging Satus Ga, GAFL, BR, COMA J, 20171223703440, 20171223703440, 2001 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 20171223704400, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 20171223704400, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 201712237040400, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 201712237040400, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 201712237040400, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 201712237041400, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171223704400, 201712237041400, 20171227054107, 2011 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171227054107, 2017122070540, 2011227054200 SWH Awanging Satus Ga, GAFL, BR, COMA J, 20171227054200 SWH Awanging Satus Ga, GAFL, BR, COMA J, 201712270540000 SWH Awanging Satus Ga, GAFL, BR, COMA J	CS_OFFL_SIR_GOPM_2_20171225T015729_20171225T020145_C001	Ice Backscatter Averaging Status	
Residence Averaging Status - Terrors. Co. OFFL, SA, GOM J, 2017125170342, 2017125170342, 2017125170344, 2017125170347, 2017125170344, 2017125170344, 2017125170347, 2011 B, 201414, Averaging Status - Feore Coll., Feore Coll., Feore, Feore, Feore, Feore, Feore, Feo	CS_OFFL_SIR_GOPM_2_20171225T020338_20171225T021856_C001		
C2_DFL_SR_OPH_2_2011225T03044_2011225T03044_C01 SWI Areaging Status The SWI and Cean Areaging Status Flags have been set for one of mon monotomers. C2_OFFL_SR_OPM_2_2011225T03044_001125T030202_C01 SWI Areaging Status The SWI and Cean Areaging Status Flags have been set for one of control. C3_OFFL_SR_OPM_2_2011225T03044_001125T030202_C011 SWI Areaging Status The SWI and Cean Areaging Status Flags have been set for one of control. C3_OFFL_SR_OPM_2_20117225T0401H_201122T030440_C011 SWI Areaging Status The SWI and Cean Areaging Status Flags have been set for one of control. C3_OFFL_SR_OPM_2_20117225T0401H_2011722T030447_C011 SWI Areaging Status The SWI and Cean Areaging Status Flags have been set for one of control	CS_OFFL_SIR_GOPM_2_20171225T022056_20171225T023016_C001		
SUD FFL SIR GOPU 2 0111221103440 2011 221103400 2001 SIG OFFL SIR GOPU 2 0111221103440 2001 SIG OFFL SIR GOPU 2 0111221103400 20111221103400 2001 SIG OFFL SIR GOPU 2 0111221103400 2001 SIG OFFL SIR GOPU 2 0111221103400 2001 SIG OFFL SIR GOPU 2 0111221103400 2001 SIG OFFL SIR GOPU 2 011122110340 2001 SIG OFFL	CS_OFFL_SIR_GOPM_2_20171225T025745_20171225T030946_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
8.0.FFL_SR_GOPU_2.011722510322_017122510320_007_001 bit Backscatter Averaging Status, Clean Inc. SWI advocation Averaging Status, Clean 8.0.OFFL_SR_GOPU_2.0117225703320_007_001 SWI Averaging Status, Clean Inc. SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.01172257034172_2017425710427_0010 SWI Averaging Status The SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.01172257034172_2017425710427_00110 bits Switcher Averaging Status The SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.01172257051072_001172257051072_00110 bits Beascatter Averaging Status The SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.01172257051072_001172257051097_0011 bit Beascatter Averaging Status The SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.01172257050102_0017227050400_001172257050103_0010 bit Beascatter Averaging Status The SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.0117225705000_00172257050108_0010 bit Beascatter Averaging Status The SWI advocation Averaging Status Fags have been set for one or income records. 8.0.OFFL_SR_GOPU_2.0117225705000_0017225705018_0010 bit Beascatter Averaging Status The SWI advocation Averaging Status Fags hav	CS_OFFL_SIR_GOPM_2_20171225T031449_20171225T032902_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPU_2_0171225T0432_0171225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0433_0171225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0443_0071225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0443_0071225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0443_0071225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0443_0071225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0452_0071225T0452_0071 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T0452_0070 CS_OFFL_SIR_GOPU_2_0171225T04520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_0077225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_2_0171225T05520_007 CS_OFFL_SIR_GOPU_	CS OFFL SIR GOPM 2 20171225T033225 20171225T034046 C001		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SR_GOPM_2_20171225T04/44_20171225T04/44_20171225T04/45_20071225T04/42_20171225T04/45_20071225T045_200715_20071225T04/45_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_20071225T045_20071225T045_20071225T045_200715_20071225T045_200715_20071225T045_200715_20071225T045_200711225T045_20071225T045_20071225T045_20071225T045_200711225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_2007125T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225T045_20071225		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CG_OFFL_SIR_GOPM_2_20171225T044147_20171225T04452_0011 EVEN 4 excepting Status Coolean EVEN 4 excepting Status The SVM and Coolean Averaging Status Flags have been set for one or Exception EVEN 4 excepting Status The SVM and Coolean Averaging Status Flags have been set for one or Exception EVEN 4 excepting Status The SVM and Coolean Averaging Status Flags have been set for one or Exception EVEN 4 excepting Status The SVM and Coolean Averaging Status Flags have been set for one or Exception EXCEPTL_SIR_GOPM_2_20171225T051407_2017025T051407_0001 EVEN 4 excepting Status The SVM and Coolean Averaging Status Flags have been set for one or Exception Except			
 Sc., Dr.L., Sill, GOM, Z., 20171225T04582, 20171225T058302, C001 Badasatter Averaging Status Berklesster Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T051122, 20171225T058121, C001 Berklesster Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T051122, 20171225T058120, C001 Berklesster Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T058120, C001 Berklesster Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T05823, 20171225T05828, 2001 S.M. Averaging Status, Coean C.G., DFL, Sill, GOM, Z., 20171225T05823, 20171225T05828, 2001 S.M. Averaging Status, Coean S.G., DFL, Sill, GOM, Z., 20171225T05828, 20171225T05828, 2001 S.M. Averaging Status, Coean S.G., DFL, Sill, GOM, Z., 20171225T05832, 20171225T05828, 2001 Beakasatter Averaging Status, Coean Beakasatter Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T05832, 20171225T05829, 2001 Beakasatter Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T05832, 20171225T05829, 2001 Beakasatter Averaging Status Beakasatter Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T075984, 2001 Beakasatter Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T075984, 2001 Beakasatter Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T075984, 2001 S.M. Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T075984, 2001 S.M. Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T075984, 2001 S.M. Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T07519, 20171225T075840, 2001 S.M. Averaging Status C.G., DFL, Sill, GOM, Z., 20171225T06486, 2001 S.M. Averaging Status C.G., FL, Sill, GOM, Z., 2017			
SCUPFL_SIR_GOPM_2_20171225T05132_20171225T05132_2001 Eachaster Averaging Status File Backsatter Ave		Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_0117225101640_201712251054737_CO01 be Backscatter Averaging Status Geone The SWH averaging Status Geone Control Control 201712251070523_01712251070525_0001 be Backscatter Averaging Status Geone The SWH averaging Status Geone Costs. Cost Geone 2, 201712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_01712251070523_0011 Beakscatter Averaging Status Geone The SWH averaging Status Ge	CS_OFFL_SIR_GOPM_2_20171225T044525_20171225T050803_C001		more records.
CS_DFL_SIR_GOPM_2_20171225108234_20171225108473_C001 Bet Backatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225008366_20171225108400_C001 Set MA veraging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108230_20171225108400_C001 Set Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108208_2017112251086048_201712251086048_201712251086048_2017122510786440_C001 Set Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251086048_20171225107864_00 Ee Backatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225107864_00 SWH Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225107879_0011725107884_0001 SWH Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225107823_20171225107884_0001 SWH Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225107823_00001 Ee Backatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108430_0001 Ee Backatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108430_0001 Ee Backatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108440_00171225108450_001 SWH Averaging S	CS_OFFL_SIR_GOPM_2_20171225T051123_20171225T051321_C001	Ice Backscatter Averaging Status	records.
CS_DFFL_SIR_GOPM_2_20171225106223_20171225106302_C001 Backsaster Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251065302_201712251065322_C001 Ice Backsaster Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251065302_001712251065322_C001 Ice Backsaster Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251065302_00171225107264_C001 SWH Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251065322_001712251073642_C001 SWH Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251065322_001712251073642_C001 SWH Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225106327_20171225108380_C001 Ice Backsaster Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108430_C0011 Ice Backsaster Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108430_C0011 Ice Backsaster Averaging Status The SWH and Cean Averaging Status Flags have been set for one or more records.<	CS_OFFL_SIR_GOPM_2_20171225T051407_20171225T051907_C001		records.
CS_DFIL_SIR_GOPM_2_20171225108403_20171225108400_C001 Backscatter Averaging Status more records. CS_OFFL_SIR_GOPM_2_20171225108608_20171225108618_C001 tes Backscatter Averaging Status The VM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251076523_201712251076924_C001 tes Backscatter Averaging Status The toe Backscatter Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251076523_201712251076924_C001 SVM H Averaging Status The SVM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225107523_201712251076924_C001 SVM H Averaging Status The SVM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225107523_201712251082535_C001 SVM H Averaging Status The SVM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108303_20171225108405_C001 tes Backscatter Averaging Status The SVM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084145_201712251084052_C001 tes Backscatter Averaging Status The SVM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084352_C001 SWM Averaging Status The SVM and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL	CS_OFFL_SIR_GOPM_2_20171225T052234_20171225T054737_C001	Backscatter Averaging Status	more records.
CS_DFFL_SR_GOPM_2_2017125106504_2017125T065126_C001 Beakscatter Averaging Status The loc Backscatter Averaging Status The loc Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_2017125T06504_2017125T065126_C001 Ice Backscatter Averaging Status The loc Backscatter Averaging Status Status Flags have been set for one or one advected in the loc Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or one advected in the loc Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or one advected in the loc Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or one advected in the loc Backscatter Averaging Status The loc Bac	CS_OFFL_SIR_GOPM_2_20171225T062033_20171225T063028_C001		
CS_OFFL_SIR_GOPM_2_20171225106306_201712251065329_0011 use Backscatter Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251073719_001712251073924_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251073719_001712251073924_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251073719_001712251073924_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_2017122510731230_001001 Interesting Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084145_001712251084300_C001 Interesting Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084145_001712251084300_C001 Interesting Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084145_001712251084300_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084145_001712251084300_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_201712251084145_001712251084300_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108432_00112510943_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225108432_0171225108437_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225101425_0171225108437_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_20171225110142_0171251108517_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_2017125110142_0171251108518_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_2017125110142_0171251103152_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFFL_SIR_GOPM_2_2017125111325_0011251113518_C001 SVM Averaging Status Flag have been set for one or more records. CS_OFF	CS_OFFL_SIR_GOPM_2_20171225T063606_20171225T064600_C001		
CS_DFTL_SIR_GOPM_2.001712251005320_20171225T075192_0017 Die Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T07519_20171225T075292_0011 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T075223_20171225T075223_20171225T082355_0001 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T083237_20171225T083250_0011 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T084145_20171225T084455_0011 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T081401_20171225T091403_C001 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T091403_20171225T091403_C001 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T101515_C0011 SWH Averaging Status Scenar The SWH and Ocean Averaging Status Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2.20171225T101452_C017125T101518_C001 SWH Averaging Status Scenar The SWH and Ocean Averaging S	CS_OFFL_SIR_GOPM_2_20171225T065048_20171225T065126_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOPM_2_01712251070160_01712251073924_C001 SWH Averaging Status, Cocan Backcaster Averaging Status, Cocan Backcaste	CS_OFFL_SIR_GOPM_2_20171225T065329_20171225T065929_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOPM_2_20171225T07319_20171225T0342_001SWH Averaging Status. Cean Bockscatter Averaging StatusThe SWH and Docen Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T08233_20171225T082533_001Ice Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flag have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T084555_001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging StatusCS_OFFL_SIR_GOPM_2_20171225T084165_20171225T091943_001Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flag have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T091601_20171225T091943_001Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T091601_20171225T091943_001Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T091432_20171225T1091503_001Ice Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T101245_0171225T101345_0011Ice Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T10146_0_20171225T10345_2017SWH Averaging StatusCoean Maveraging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_GOPM_2_20171225T114542_0171225T114542_001Ice Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20171225T070150_20171225T072954_C001		
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CS_OFFL_SIR_GOPM_2_20171225T083237_20171225T083800_C001 te Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T084145_20171225T084555_C001 SWH Averaging Status, Ocean Backscatter Averaging	CS OFFL SIR GOPM 2 20171225T075223 20171225T082535 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SWH Averaging Status, Ceen Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T091943_20171225T091943_C001 SWH Averaging Status, Ceen Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T00125T101635_C001 CS_OFFL_SIR_GOPM_2_20171225T101635_C001 CS_OFFL_SIR_GOPM_2_20171225T101245_20171225T101635_C001 CS_OFFL_SIR_GOPM_2_20171225T101245_20171225T101635_C001 CS_OFFL_SIR_GOPM_2_20171225T101345_20171225T101345_C001 SWH Averaging Status, Ceen Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T101345_20171225T101345_C001 SWH Averaging Status, Ceen Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T101345_20171225T101345_C001 SWH Averaging Status, Ceen Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T110345_20171225T110347_C001 Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T110345_20171225T110345_C001 SWH Averaging Status, Ceen Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T111452_C001 Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T111558_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T111558_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T112258_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_20171225T11558_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_20171225T112538_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_201711225T112538_C001 CS_OFFL_SIR_GOPM_2_20171225T11258_201711225T112538_C001 CS_OFFL_SIR_GOPM_2_20171225T112581_201711225T112538_C001 CS_OFFL_SIR_GOPM_2_20171225T112581_20171225T113535_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T13332_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T13332_C001 CE Backscat			The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20171225T09101_20171225T09103_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T094322_20171225T100517_C001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T101245_20171225T100517_C001 Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T101245_20171225T101053_C001 CS_OFFL_SIR_GOPM_2_20171225T10145_20171225T101053_C001 CS_OFFL_SIR_GOPM_2_20171225T10145_20171225T101053_C001 CS_OFFL_SIR_GOPM_2_20171225T10245_20171225T103158_C001 Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T10345_20171225T10345_2001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T10345_20171225T10345_C001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T11027_20171225T110345_C001 CS_OFFL_SIR_GOPM_2_20171225T111518_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T115158_C001 CS_OFFL_SIR_GOPM_2_20171225T115158_00171225T11518_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T115158_20171225T11518_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T115158_20171225T11518_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T11253T10516_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T11253B_20171225T115519_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T125238_20171225T113016_C001 SWH Averaging Status CS_OFFL_SIR_GOPM_2_20171225T125238_20171225T130316_C001 SWH Averaging Status CS_OFFL_SIR_GOPM_2_20171225T132324_20171225T133035_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T132524_20171225T133035_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T13254_20171225T13238_C001 SWH Averaging Status CS_OFFL_SIR_GOPM_2_20171225T13254_20171225T13234_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20171225T13254_20171225T13234_C001 CE Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_2017		SWH Averaging Status, Ocean	
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		Backscatter Averaging Status	more records.
	CS_OFFL_SIR_GOPM_2_20171225T143558_20171225T144617_C001		

CS_OFFL_SIR_GOPM_2_20171225T144757_20171225T150207_C001 CS OFFL SIR GOPM 2 20171225T150445 20171225T150946 C001 CS_OFFL_SIR_GOPM_2_20171225T150953_20171225T151005_C001 CS_OFFL_SIR_GOPM_2_20171225T151011_20171225T151020_C001 CS_OFFL_SIR_GOPM_2_20171225T151822_20171225T151952_C001 CS_OFFL_SIR_GOPM_2_20171225T152217_20171225T153207_C001 CS OFFL SIR GOPM 2 20171225T153501 20171225T154009 C001 CS OFFL SIR GOPM 2 20171225T161855 20171225T164124 C001 CS_OFFL_SIR_GOPM_2_20171225T164520_20171225T164903_C001 CS_OFFL_SIR_GOPM_2_20171225T165544_20171225T172403_C001 CS OFFL SIR GOPM 2 20171225T175533 20171225T182037 C001 CS_OFFL_SIR_GOPM_2_20171225T182302_20171225T182817_C001 CS OFFL SIR GOPM 2 20171225T182823 20171225T183150 C001 CS_OFFL_SIR_GOPM_2_20171225T183556_20171225T184620_C001 CS_OFFL_SIR_GOPM_2_20171225T185158_20171225T190836_C001 CS OFFL SIR GOPM 2 20171225T193132 20171225T194958 C001 CS_OFFL_SIR_GOPM_2_20171225T195452_20171225T195929_C001 CS_OFFL_SIR_GOPM_2_20171225T200302_20171225T200851_C001 CS_OFFL_SIR_GOPM_2_20171225T201526_20171225T204804_C001 CS_OFFL_SIR_GOPM_2_20171225T210133_20171225T210229_C001 CS_OFFL_SIR_GOPM_2_20171225T212349_20171225T213745_C001 CS OFFL SIR GOPM 2 20171225T214231 20171225T214743 C001 CS_OFFL_SIR_GOPM_2_20171225T215410_20171225T221556_C001 CS OFFL SIR GOPM 2 20171225T221841 20171225T222813 C001 CS OFFL SIR GOPM 2 20171225T225833 20171225T231707 C001 CS OFFL SIR GOPM 2 20171225T233346 20171226T000640 C001 CS_OFFL_SIR_GOPN_2_20171225T001731_20171225T002357_C001 CS_OFFL_SIR_GOPN_2_20171225T082916_20171225T083237_C001 CS_OFFL_SIR_GOPN_2_20171225T083801_20171225T083919_C001 CS OFFL SIR GOPN 2 20171225T124512 20171225T124524 C001 CS_OFFL_SIR_GOPN_2_20171225T164919_20171225T164924_C001 CS_OFFL_SIR_GOPN_2_20171225T165222_20171225T165426_C001 CS_OFFL_SIR_GOPN_2_20171225T205138_20171225T205147_C001 CS_OFFL_SIR_GOPR_2_20171225T020320_20171225T020338_C001 CS_OFFL_SIR_GOPR_2_20171225T024413_20171225T024729_C001 CS OFFL SIR GOPR 2 20171225T123356 20171225T123415 C001 CS_OFFL_SIR_GOPR_2_20171225T123928_20171225T124512_C001 CS_OFFL_SIR_GOPR_2_20171225T150208_20171225T150258_C001 CS OFFL SIR GOPR 2 20171225T150947 20171225T150953 C001 CS_OFFL_SIR_GOPR_2_20171225T201206_20171225T201526_C001 CS_OFFL_SIR_GOPR_2_20171225T221557_20171225T221840_C001

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

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

The SWH 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 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.

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

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

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

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

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

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

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

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

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

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

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.

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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:

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: 0

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.

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 0 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20171225T133051_20171225T142026_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171224T232724_20171225T001702_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T001702_20171225T010637_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_220171225T010637_20171225T015616_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_220171225T015616_20171225T024551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T024551_20171225T033529_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_220171225T033529_20171225T042504_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_220171225T042504_20171225T051443_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_220171225T051443_20171225T060418_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_220171225T060418_20171225T065357_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_220171225T065357_20171225T074332_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_220171225T074332_20171225T083310_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_20171225T083310_20171225T092245_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_220171225T092245_20171225T101224_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T101224_20171225T110159_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_220171225T110159_20171225T115137_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_220171225T115137_20171225T124112_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_220171225T124112_20171225T133051_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_220171225T133051_20171225T142026_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T142026_20171225T151004_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_220171225T155939_20171225T164918_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_220171225T164918_20171225T173853_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_220171225T173853_20171225T182832_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_220171225T182832_20171225T191807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T191807_20171225T200745_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_220171225T200745_20171225T205720_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T205720_20171225T214659_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_220171225T214659_20171225T223634_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220171225T223634_20171225T232613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20171225T232613_20171226T001547_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. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171224T232724_20171225T001702_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_20171225T001702_20171225T010637_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_20171225T010637_20171225T015616_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_20171225T015616_20171225T024551_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_20171225T024551_20171225T033529_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_20171225T033529_20171225T042504_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_20171225T042504_20171225T051443_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_20171225T051443_20171225T060418_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_20171225T060418_20171225T065357_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_20171225T065357_20171225T074332_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_20171225T074332_20171225T083310_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_20171225T083310_20171225T092245_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_220171225T092245_20171225T101224_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_20171225T101224_20171225T110159_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_220171225T110159_20171225T115137_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_220171225T115137_20171225T124112_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_220171225T124112_20171225T133051_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_220171225T133051_20171225T142026_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_220171225T142026_20171225T151004_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_220171225T155939_20171225T164918_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_220171225T164918_20171225T173853_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_220171225T173853_20171225T182832_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_220171225T182832_20171225T191807_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_20171225T191807_20171225T200745_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_20171225T200745_20171225T205720_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_20171225T205720_20171225T214659_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_20171225T214659_20171225T223634_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_20171225T223634_20171225T232613_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_20171225T232613_20171226T001547_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.

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: 25

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220171225T001702_20171225T010637_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2__20171225T010637_20171225T015616_C001 CS OFFL SIR GOP 2 20171225T015616 20171225T024551 C001 CS_OFFL_SIR_GOP_2__20171225T024551_20171225T033529_C001 CS_OFFL_SIR_GOP_2__20171225T033529_20171225T042504_C001 CS_OFFL_SIR_GOP_2__20171225T042504_20171225T051443_C001 CS_OFFL_SIR_GOP_2__20171225T051443_20171225T060418_C001 CS OFFL SIR GOP 2 20171225T060418 20171225T065357 C001 CS OFFL SIR GOP 2 20171225T065357 20171225T074332 C001 CS_OFFL_SIR_GOP_2__20171225T074332_20171225T083310_C001 CS_OFFL_SIR_GOP_2_20171225T083310_20171225T092245_C001 CS_OFFL_SIR_GOP_2__20171225T092245_20171225T101224_C001 CS_OFFL_SIR_GOP_2__20171225T101224_20171225T110159_C001 CS_OFFL_SIR_GOP_2__20171225T110159_20171225T115137_C001 CS_OFFL_SIR_GOP_2__20171225T115137_20171225T124112_C001 CS_OFFL_SIR_GOP_2__20171225T124112_20171225T133051_C001 CS OFFL SIR GOP 2 20171225T133051 20171225T142026 C001 CS_OFFL_SIR_GOP_2__20171225T142026_20171225T151004_C001 CS_OFFL_SIR_GOP_2__20171225T173853_20171225T182832_C001 CS_OFFL_SIR_GOP_2_20171225T182832_20171225T191807_C001 CS_OFFL_SIR_GOP_2_20171225T191807_20171225T200745_C001 CS_OFFL_SIR_GOP_2_20171225T200745_20171225T205720_C001 CS OFFL SIR GOP 2 20171225T205720 20171225T214659 C001 CS_OFFL_SIR_GOP_2__20171225T223634_20171225T232613_C001 CS_OFFL_SIR_GOP_2_20171225T232613_20171226T001547_C001 Ocean Retracking Quality Flag Ocean Retracking Quality Flag

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