

IDEAS+ Daily Report for GOP data:

<u>15/02/2019</u>



nort Droduction	18-Mar-2019	Check	L1 & L2	P2P
eport Production:	18-Mar-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrucSat Occan Brassager	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor used.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Useu.	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	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

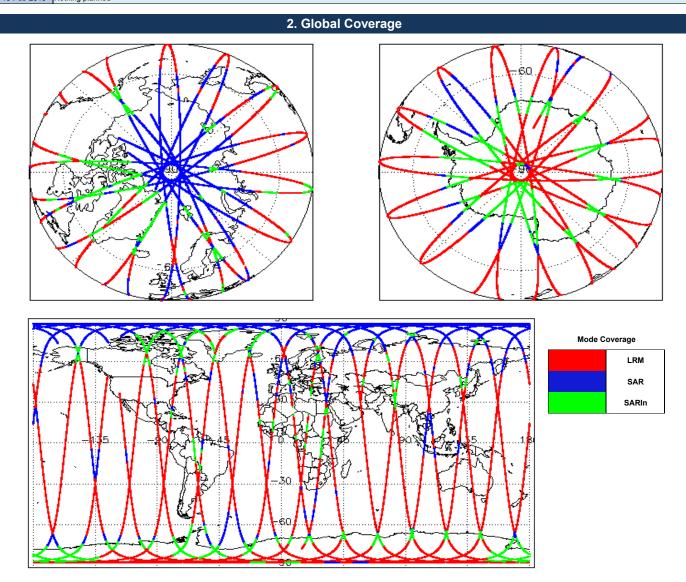
1. Overview

Mission / Instrument News

14-Feb-2019 SIRAL unavailability on 14-Feb-2019 from 09:05:09 to 11:00:07 due to a planned orbit manoeuvre.

15-Feb-2019 None

16-Feb-2019 Nothing planned



3. Instrument Configuration

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

SIRAL instrument(s) in use:

(s) in use: SIRAL - A

0

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:
0

A6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set. Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected. Number of products with errors: 15 Product TeacKing eCho Is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T032505_20190215T032840_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T050855_20190215T051022_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T050855_20190215T051022_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T050855_20190215T016022_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T103260_20190215T016022_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T113326_20190215T014001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T103260_20190215T113401_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T103260_20190215T113401_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T103260_20190215T13400_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T103267_2001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T25050_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T03552_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T03552_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T05852_001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPNIB_20190215T05852_001 Loss of Echo The tracking echo is	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.
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CS_OFFL_SIR_GOPN1B_20190215T032505_20190215T032840_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T050855_20190215T051022_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T064319_20190215T064528_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T113326_20190215T113401_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T181200_20190215T181410_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T181200_20190215T181410_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T204822_20190215T205005_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T222723_20190215T22902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T231607_20190215T231627_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T064524_20190215T015855_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T064528_20190215T064624_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T085528_20190215T082233_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR	Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20190215T050855_20190215T051022_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T064319_20190215T064528_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T113326_20190215T113401_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T181200_20190215T181410_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T204822_20190215T20505_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T22723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T22723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T22723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T22723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T222723_20190215T03655_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T064528_20190215T08624_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T012506_20190215T082233_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_201	CS_OFFL_SIR_GOPM1B_20190215T024007_20190215T031219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190215T064319_20190215T064528_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T113326_20190215T113401_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T181200_20190215T181410_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T204822_20190215T20505_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T222723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T22723_20190215T22902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T231607_20190215T22902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T231607_20190215T231627_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T05824_20190215T05855_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T064528_20190215T064624_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T081500_20190215T1275_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T18073_20190215T112715_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190	CS_OFFL_SIR_GOPN1B_20190215T032505_20190215T032840_C001	Loss of Echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_GOPN1B_20190215T204822_20190215T205005_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T222723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T222723_20190215T222902_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPN1B_20190215T231607_20190215T231627_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T015824_20190215T015855_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T064528_20190215T064624_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T180737_20190215T112715_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20190215T113326_20190215T113401_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190215T222723_20190215T222902_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20190215T231607_20190215T231627_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T015824_20190215T015855_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T064528_20190215T064624_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T1180737_20190215T180831_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20190215T181200_20190215T181410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190215T231607_20190215T231627_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T015824_20190215T015855_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T064524_20190215T064624_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20190215T204822_20190215T205005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190215T015824_20190215T015855_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T064528_20190215T064624_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20190215T222723_20190215T222902_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190215T064528_20190215T064624_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20190215T231607_20190215T231627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20190215T015824_20190215T015855_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001 Loss of Echo The tracking echo is missing for one or more records	CS OFFL SIR GOPR1B 20190215T064528 20190215T064624 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_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
		Land of Falls	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190215T231832_20190215T232125_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001	Loss of Echo	
	CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001		The tracking echo is missing for one or more records
5. GOP Level 2 Data Quality Check	CS_OFFL_SIR_GOPR1B_20190215T081500_20190215T082233_C001 CS_OFFL_SIR_GOPR1B_20190215T112536_20190215T112715_C001 CS_OFFL_SIR_GOPR1B_20190215T180737_20190215T180831_C001	Loss of Echo	

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_20190215T230701_20190215T230725_C001.DBL	Percentage of processing errors detected greater than minimum acceptable threshold.

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

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

0

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 85

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190215T000856_20190215T000944_C001	IUcean Rande Averadind Status	The Ocean Range Averaging Status Flag has been set for one or more records

CS_OFFL_SIR_GOPM_2_20190215T003114_20190215T004810_C001 CS OFFL SIR GOPM 2 20190215T004942 20190215T005458 C001 CS_OFFL_SIR_GOPM_2_20190215T010023_20190215T012311_C001 CS_OFFL_SIR_GOPM_2_20190215T012557_20190215T013530_C001 CS_OFFL_SIR_GOPM_2_20190215T014712_20190215T014738_C001 CS_OFFL_SIR_GOPM_2_20190215T014833_20190215T015133_C001 CS OFFL SIR GOPM 2 20190215T020602 20190215T021202 C001 CS OFFL SIR GOPM 2 20190215T021349 20190215T022715 C001 CS_OFFL_SIR_GOPM_2_20190215T024006_20190215T031219_C001 CS_OFFL_SIR_GOPM_2_20190215T033006_20190215T033659_C001 CS_OFFL_SIR_GOPM_2_20190215T033716_20190215T040134_C001 CS_OFFL_SIR_GOPM_2_20190215T041111_20190215T041305_C001 CS_OFFL_SIR_GOPM_2_20190215T041520_20190215T041803_C001 CS_OFFL_SIR_GOPM_2_20190215T041936_20190215T044841_C001 CS_OFFL_SIR_GOPM_2_20190215T050503_20190215T050855_C001 CS OFFL SIR GOPM 2 20190215T051023 20190215T051220 C001 CS_OFFL_SIR_GOPM_2_20190215T051423_20190215T052609_C001 CS_OFFL_SIR_GOPM_2_20190215T053229_20190215T054332_C001 CS OFFL SIR GOPM 2 20190215T054948 20190215T055223 C001 CS_OFFL_SIR_GOPM_2_20190215T055245_20190215T055712_C001 CS_OFFL_SIR_GOPM_2_20190215T055855_20190215T061358_C001 CS OFFL SIR GOPM 2 20190215T061537 20190215T061820 C001 CS_OFFL_SIR_GOPM_2_20190215T065226_20190215T065846_C001 CS OFFL SIR GOPM 2 20190215T070059 20190215T072511 C001 CS OFFL SIR GOPM 2 20190215T072733 20190215T073624 C001 CS OFFL SIR GOPM 2 20190215T073831 20190215T080237 C001 CS_OFFL_SIR_GOPM_2_20190215T082934_20190215T090419_C001 CS_OFFL_SIR_GOPM_2_20190215T090950_20190215T091414_C001 CS_OFFL_SIR_GOPM_2_20190215T091706_20190215T094305_C001 CS OFFL SIR GOPM 2 20190215T101113 20190215T102604 C001 CS_OFFL_SIR_GOPM_2_20190215T103139_20190215T104338_C001 CS_OFFL_SIR_GOPM_2_20190215T104904_20190215T105453_C001 CS OFFL SIR GOPM 2 20190215T105618 20190215T110346 C001 CS_OFFL_SIR_GOPM_2_20190215T110441_20190215T111214_C001 CS_OFFL_SIR_GOPM_2_20190215T112116_20190215T112250_C001 CS OFFL SIR GOPM 2 20190215T114733 20190215T122236 C001 CS_OFFL_SIR_GOPM_2_20190215T122809_20190215T123324_C001 CS OFFL SIR GOPM 2 20190215T123501 20190215T123809 C001 CS OFFL SIR GOPM 2 20190215T124010 20190215T124418 C001 CS_OFFL_SIR_GOPM_2_20190215T124437_20190215T125428_C001 CS_OFFL_SIR_GOPM_2_20190215T131041_20190215T131321_C001 CS OFFL SIR GOPM 2 20190215T132723 20190215T133614 C001 CS_OFFL_SIR_GOPM_2_20190215T133859_20190215T140118_C001 CS_OFFL_SIR_GOPM_2_20190215T140638_20190215T140810_C001 CS_OFFL_SIR_GOPM_2_20190215T140817_20190215T141227_C001 CS_OFFL_SIR_GOPM_2_20190215T141440_20190215T143640_C001 CS OFFL SIR GOPM 2 20190215T143736 20190215T144141 C001 CS_OFFL_SIR_GOPM_2_20190215T144655_20190215T144937_C001 CS_OFFL_SIR_GOPM_2_20190215T150812_20190215T153103_C001 CS OFFL SIR GOPM 2 20190215T153106 20190215T154014 C001 CS_OFFL_SIR_GOPM_2_20190215T154141_20190215T154708_C001 Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status 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 Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status

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CS_OFFL_SIR_GOPM_2_20190215T155813_20190215T161042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T161122_20190215T162830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T163230_20190215T163406_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T165002_20190215T170134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T170337_20190215T171926_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T172108_20190215T172605_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T172644_20190215T172805_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T173508_20190215T174728_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T175208_20190215T180355_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T184300_20190215T185808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T190033_20190215T190518_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T190558_20190215T190709_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T191129_20190215T193837_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T201237_20190215T203807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T204057_20190215T204432_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T205043_20190215T210606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T210824_20190215T211950_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T221849_20190215T222346_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T223031_20190215T224202_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T224737_20190215T230530_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T235035_20190215T235157_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T235357_20190215T235706_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T235848_20190216T000418_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T113539_20190215T113634_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T131559_20190215T131609_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T140214_20190215T140638_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T154020_20190215T154141_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T203826_20190215T204057_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T204450_20190215T204455_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T221722_20190215T221754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190215T012312_20190215T012557_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190215T023852_20190215T024006_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190215T031730_20190215T031850_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. 82

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190215T000856_20190215T000944_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_20190215T003114_20190215T004810_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_20190215T004942_20190215T005458_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T010023_20190215T012311_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_20190215T012557_20190215T013530_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_20190215T014712_20190215T014738_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_20190215T014833_20190215T015133_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_20190215T020602_20190215T021202_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_20190215T021349_20190215T022715_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_20190215T024006_20190215T031219_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_20190215T033716_20190215T040134_C001 CS OFFL SIR GOPM 2 20190215T041111 20190215T041305 C001 CS_OFFL_SIR_GOPM_2_20190215T041520_20190215T041803_C001 CS_OFFL_SIR_GOPM_2_20190215T041936_20190215T044841_C001 CS OFFL SIR GOPM 2 20190215T050503 20190215T050855 C001 CS_OFFL_SIR_GOPM_2_20190215T051023_20190215T051220_C001 CS OFFL SIR GOPM 2 20190215T051423 20190215T052609 C001 CS OFFL SIR GOPM 2 20190215T053229 20190215T054332 C001 CS_OFFL_SIR_GOPM_2_20190215T054948_20190215T055223_C001 CS_OFFL_SIR_GOPM_2_20190215T055245_20190215T055712_C001 CS OFFL SIR GOPM 2 20190215T055855 20190215T061358 C001 CS_OFFL_SIR_GOPM_2_20190215T061537_20190215T061820_C001 CS OFFL SIR GOPM 2 20190215T065226 20190215T065846 C001 CS_OFFL_SIR_GOPM_2_20190215T070059_20190215T072511_C001 CS_OFFL_SIR_GOPM_2_20190215T072733_20190215T073624_C001 CS OFFL SIR GOPM 2 20190215T073831 20190215T080237 C001 CS OFFL SIR GOPM 2 20190215T082934 20190215T090419 C001 CS_OFFL_SIR_GOPM_2_20190215T090950_20190215T091414_C001 CS OFFL SIR GOPM 2 20190215T091706 20190215T094305 C001 CS_OFFL_SIR_GOPM_2_20190215T101113_20190215T102604_C001 CS_OFFL_SIR_GOPM_2_20190215T103139_20190215T104338_C001 CS OFFL SIR GOPM 2 20190215T104904 20190215T105453 C001 CS_OFFL_SIR_GOPM_2_20190215T105618_20190215T110346_C001 CS OFFL SIR GOPM 2 20190215T110441 20190215T111214 C001 CS OFFL SIR GOPM 2 20190215T112116 20190215T112250 C001 CS OFFL SIR GOPM 2 20190215T114733 20190215T122236 C001 CS_OFFL_SIR_GOPM_2_20190215T122809_20190215T123324_C001 CS_OFFL_SIR_GOPM_2_20190215T123501_20190215T123809_C001 CS_OFFL_SIR_GOPM_2_20190215T124010_20190215T124418_C001 CS OFFL SIR GOPM 2 20190215T124437 20190215T125428 C001 CS_OFFL_SIR_GOPM_2_20190215T131041_20190215T131321_C001 CS_OFFL_SIR_GOPM_2_20190215T132723_20190215T133614_C001 CS OFFL SIR GOPM_2_20190215T133859_20190215T140118_C001 CS_OFFL_SIR_GOPM_2_20190215T140638_20190215T140810_C001 CS_OFFL_SIR_GOPM_2_20190215T140817_20190215T141227_C001 CS OFFL SIR GOPM 2 20190215T141440 20190215T143640 C001 CS_OFFL_SIR_GOPM_2_20190215T143736_20190215T144141_C001 CS_OFFL_SIR_GOPM_2_20190215T150812_20190215T153103_C001 CS OFFL SIR GOPM 2 20190215T153106 20190215T154014 C001 CS OFFL SIR GOPM 2 20190215T154141 20190215T154708 C001 CS_OFFL_SIR_GOPM_2_20190215T154728_20190215T154956_C001 CS OFFL SIR GOPM 2 20190215T155813 20190215T161042 C001 CS_OFFL_SIR_GOPM_2_20190215T161122_20190215T162830_C001 CS OFFL SIR GOPM 2 20190215T163230 20190215T163406 C001 CS_OFFL_SIR_GOPM_2_20190215T165002_20190215T170134_C001 CS_OFFL_SIR_GOPM_2_20190215T170337_20190215T171926_C001 CS OFFL SIR GOPM 2 20190215T172108 20190215T172605 C001 CS_OFFL_SIR_GOPM_2_20190215T172644_20190215T172805_C001 CS_OFFL_SIR_GOPM_2_20190215T173508_20190215T174728_C001 CS OFFL SIR GOPM 2 20190215T175208 20190215T180355 C001 CS OFFL SIR GOPM 2 20190215T184300 20190215T185808 C001 SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status ecords Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status more records Ice Backscatter Averaging Status records Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records 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 records SWH Averaging Status, Ocean Backscatter Averaging Status more records. Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status more records. SWH Averaging Status, Ocean Backscatter Averaging Status nore records 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 records Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records 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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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 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

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

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

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

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

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

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

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

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

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

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 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 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.

CS_OFFL_SIR_GOPM_2_20190215T190033_20190215T190518_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T190558_20190215T190709_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T191129_20190215T193837_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_20190215T201237_20190215T203807_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_20190215T204057_20190215T204432_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T205043_20190215T210606_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_20190215T210824_20190215T211950_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_20190215T221849_20190215T222346_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190215T223031_20190215T224202_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_20190215T224737_20190215T230530_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_20190215T235357_20190215T235706_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_20190215T235848_20190216T000418_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T113539_20190215T113634_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_20190215T131559_20190215T131609_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_20190215T154020_20190215T154141_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T203826_20190215T204057_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T204450_20190215T204455_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190215T221722_20190215T221754_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_20190215T012312_20190215T012557_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_20190215T023852_20190215T024006_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_20190215T031730_20190215T031850_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: 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.

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220190215T000432_20190215T005409_C002	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_220190215T005409_20190215T014345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T014345_20190215T023323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T023323_20190215T032259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220190215T032259_20190215T041236_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_220190215T041236_20190215T050212_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_220190215T050212_20190215T055150_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_220190215T055150_20190215T064126_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_220190215T064126_20190215T073103_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T073103_20190215T082039_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_220190215T082039_20190215T091017_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T091017_20190215T095953_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_220190215T095953_20190215T104931_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_220190215T104931_20190215T113907_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_220190215T113907_20190215T122844_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T122844_20190215T131820_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_220190215T131820_20190215T140758_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_220190215T140758_20190215T145734_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_220190215T145734_20190215T154711_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_220190215T154711_20190215T163647_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_220190215T163647_20190215T172625_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_220190215T172625_20190215T181601_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T181601_20190215T190539_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_220190215T190539_20190215T195514_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T195514_20190215T204452_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_220190215T204452_20190215T213428_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_220190215T213428_20190215T222406_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T222406_20190215T231342_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T231342_20190216T000319_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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190215T000432_20190215T005409_C002	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_20190215T005409_20190215T014345_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_20190215T014345_20190215T023323_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_20190215T023323_20190215T032259_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_20190215T032259_20190215T041236_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_20190215T041236_20190215T050212_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_20190215T050212_20190215T055150_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_20190215T055150_20190215T064126_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_20190215T064126_20190215T073103_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_20190215T073103_20190215T082039_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_20190215T082039_20190215T091017_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_20190215T091017_20190215T095953_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_220190215T095953_20190215T104931_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_220190215T104931_20190215T113907_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_220190215T113907_20190215T122844_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_220190215T122844_20190215T131820_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_220190215T131820_20190215T140758_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_220190215T140758_20190215T145734_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_220190215T145734_20190215T154711_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_220190215T154711_20190215T163647_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_220190215T163647_20190215T172625_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_220190215T172625_20190215T181601_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_220190215T181601_20190215T190539_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_220190215T190539_20190215T195514_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_220190215T195514_20190215T204452_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_220190215T204452_20190215T213428_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_220190215T213428_20190215T222406_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T222406_20190215T231342_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_220190215T231342_20190216T000319_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.

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_220190215T000432_20190215T005409_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T005409_20190215T014345_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T014345_20190215T023323_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T023323_20190215T032259_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T032259_20190215T041236_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T041236_20190215T050212_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T050212_20190215T055150_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T055150_20190215T064126_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T064126_20190215T073103_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T073103_20190215T082039_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T082039_20190215T091017_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T091017_20190215T095953_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T104931_20190215T113907_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T113907_20190215T122844_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T122844_20190215T131820_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T131820_20190215T140758_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T140758_20190215T145734_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T145734_20190215T154711_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T154711_20190215T163647_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T163647_20190215T172625_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T172625_20190215T181601_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T190539_20190215T195514_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2_20190215T195514_20190215T204452_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190215T222406_20190215T231342_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190215T231342_20190216T000319_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.