



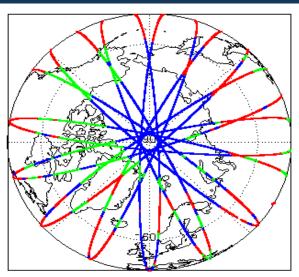
1. Overview

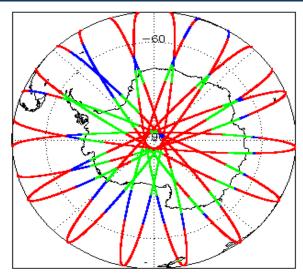
Daniel Burdentian	00 May 0040
Report Production:	30-May-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

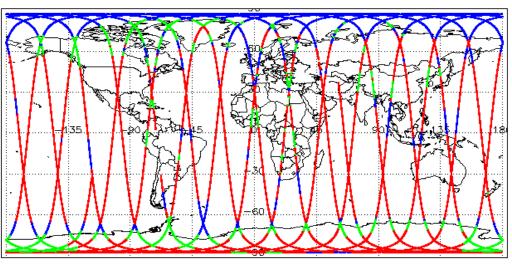
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	See Section 5.2	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instrument News		
26-Apr-2018	SIRAL unavailability on 26-Apr-2018 from 03:35:19 to 04:44:35 due to a planned orbit manoeuvre.	
27-Apr-2018	None	
28-Apr-2018	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

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:

0

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.

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.

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.

Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Λ

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:

19

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180427T125442_20180427T132258_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180427T133559_20180427T141024_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180427T170049_20180427T172713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T011437_20180427T011519_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T022904_20180427T023103_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T024100_20180427T024146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T073630_20180427T074034_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T083320_20180427T083931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T122841_20180427T122903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T160101_20180427T160133_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T195840_20180427T200434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180427T223657_20180427T224147_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T005756_20180427T011031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T024146_20180427T024933_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T040847_20180427T040926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T041214_20180427T041344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T091150_20180427T091408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T115457_20180427T115632_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180427T174005_20180427T174405_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

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:

Product	Test Failed
CS_OFFL_SIR_GOPR_2_20180427T190706_20180427T190716_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:

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:

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:

0

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.

Product CS OFFL SIR GOPM 2 20180426T235750 20180427T000903 C001	Ocean Range Averaging Status	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T001516_20180427T001938_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T002302_20180427T005044_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T011519_20180427T013127_C001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T013149_20180427T014814_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T015427_20180427T020005_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T020131_20180427T020748_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T023901_20180427T024021_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T025342_20180427T032731_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T033331_20180427T033842_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T034057_20180427T040025_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T043215_20180427T050553_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T051336_20180427T051748_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T052015_20180427T054819_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180427T054843_20180427T055606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T055816_20180427T060007_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180427T061234_20180427T062304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T062928_20180427T064519_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T064709_20180427T065228_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T065247_20180427T065452_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T070337_20180427T071603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T071812_20180427T073028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T073232_20180427T073445_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T075735_20180427T080707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T080909_20180427T082425_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T082634_20180427T083129_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T083203_20180427T083319_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T083931_20180427T084134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T085730_20180427T090152_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T090315_20180427T090718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T094658_20180427T100324_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T100622_20180427T101056_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T101102_20180427T101111_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T101711_20180427T104220_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T111701_20180427T114258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T114450_20180427T114956_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T115016_20180427T115340_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T115632_20180427T120809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T121344_20180427T122841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T125442_20180427T132258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T132433_20180427T132910_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T133559_20180427T141024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T145427_20180427T145722_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T145921_20180427T150157_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T150415_20180427T150936_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T151526_20180427T153743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T154029_20180427T154934_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T160204_20180427T160554_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
	J	records.

CS_OFFL_SIR_GOPM_2_20180427T162824_20180427T164109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T164443_20180427T164835_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T165439_20180427T170039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T170049_20180427T172713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T174527_20180427T181613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T182548_20180427T182741_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T183040_20180427T183212_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T183435_20180427T185202_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T185642_20180427T190343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T191939_20180427T192324_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T192518_20180427T194044_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T194704_20180427T195840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T200728_20180427T201150_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T201340_20180427T202830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T203145_20180427T204541_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T210806_20180427T211410_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T211533_20180427T212009_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T212329_20180427T213931_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T214221_20180427T215058_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T215317_20180427T221555_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T224414_20180427T231834_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T232422_20180427T232857_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T233208_20180427T235704_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180427T023807_20180427T023901_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180427T200655_20180427T200728_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180427T042203_20180427T043215_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180427T080707_20180427T080909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180427T233116_20180427T233208_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.

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

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180426T235750_20180427T000903_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_20180427T001516_20180427T001938_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T002302_20180427T005044_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_20180427T011519_20180427T013127_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_20180427T013149_20180427T014814_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_20180427T015427_20180427T020005_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T023901_20180427T024021_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_20180427T025342_20180427T032731_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_20180427T033331_20180427T033842_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T034057_20180427T040025_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_20180427T043215_20180427T050553_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_20180427T051336_20180427T051748_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T052015_20180427T054819_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_20180427T054843_20180427T055606_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_20180427T055816_20180427T060007_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS OFFL SIR GOPM 2 20180427T061234 20180427T062304 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T062928_20180427T064519_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T065247_20180427T065452_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T070337_20180427T071603_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T071812_20180427T073028_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T073232_20180427T073445_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T075735_20180427T080707_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T080909_20180427T082425_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20180427T082634_20180427T083129_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T083203_20180427T083319_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T083931_20180427T084134_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_20180427T085730_20180427T090152_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_20180427T090315_20180427T090718_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_20180427T094658_20180427T100324_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_20180427T100622_20180427T101056_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T101102_20180427T101111_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T101711_20180427T104220_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_20180427T111701_20180427T114258_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_20180427T114450_20180427T114956_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T115016_20180427T115340_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T115632_20180427T120809_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T121344_20180427T122841_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T125442_20180427T132258_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T132433_20180427T132910_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T133559_20180427T141024_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T145427_20180427T145722_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T145921_20180427T150157_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T150415_20180427T150936_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T151526_20180427T153743_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T154029_20180427T154934_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20180427T160204_20180427T160554_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_20180427T162149_20180427T162636_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_20180427T162824_20180427T164109_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_20180427T164443_20180427T164835_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T165439_20180427T170039_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_20180427T170049_20180427T172713_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_20180427T174527_20180427T181613_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_20180427T182548_20180427T182741_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T183435_20180427T185202_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_20180427T185642_20180427T190343_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_20180427T191939_20180427T192324_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180427T192518_20180427T194044_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T194704_20180427T195840_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T201340_20180427T202830_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T203145_20180427T204541_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_201804271203145_201804271204941_C001 CS_OFFL_SIR_GOPM_2_20180427T211533_20180427T212009_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T212329_20180427T213931_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T214221_20180427T215058_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T215317_20180427T221555_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180427T224414_20180427T231834_C001	Backscatter Averaging Status	more records. The loe Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180427T232422_20180427T232857_C001	Ice Backscatter Averaging Status	records.

CS_OFFL_SIR_GOPM_2_20180427T233208_20180427T235704_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_20180427T023807_20180427T023901_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_20180427T200655_20180427T200728_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180427T042203_20180427T043215_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_20180427T080707_20180427T080909_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_20180427T233116_20180427T233208_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:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180426T232607_20180427T001546_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T001546_20180427T010520_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_220180427T010520_20180427T015500_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_220180427T015500_20180427T024434_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_220180427T024434_20180427T033413_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_220180427T033413_20180427T042347_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_220180427T042347_20180427T051327_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_220180427T051327_20180427T060301_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T060301_20180427T065240_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_220180427T065240_20180427T074214_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_220180427T074214_20180427T083154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T083154_20180427T092128_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_220180427T092128_20180427T101108_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_220180427T101108_20180427T110042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T110042_20180427T115021_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_220180427T115021_20180427T123955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T123955_20180427T132935_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_20180427T132935_20180427T141909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T141909_20180427T150848_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_220180427T150848_20180427T155822_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_220180427T155822_20180427T164802_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_220180427T164802_20180427T173736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T173736_20180427T182715_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T182715_20180427T191649_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_220180427T191649_20180427T200629_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_220180427T200629_20180427T205603_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_220180427T205603_20180427T214543_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_220180427T214543_20180427T223517_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_220180427T223517_20180427T232456_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180427T232456_20180428T001430_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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180426T232607_20180427T001546_C003	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T001546_20180427T010520_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_20180427T010520_20180427T015500_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_20180427T015500_20180427T024434_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_20180427T024434_20180427T033413_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_20180427T033413_20180427T042347_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_20180427T042347_20180427T051327_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_20180427T051327_20180427T060301_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_20180427T060301_20180427T065240_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_20180427T065240_20180427T074214_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_20180427T074214_20180427T083154_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_20180427T083154_20180427T092128_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_20180427T092128_20180427T101108_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_20180427T101108_20180427T110042_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_20180427T110042_20180427T115021_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_20180427T115021_20180427T123955_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_20180427T123955_20180427T132935_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_20180427T132935_20180427T141909_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_20180427T141909_20180427T150848_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_20180427T150848_20180427T155822_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_20180427T155822_20180427T164802_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_20180427T164802_20180427T173736_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_20180427T173736_20180427T182715_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_20180427T182715_20180427T191649_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_20180427T191649_20180427T200629_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_20180427T200629_20180427T205603_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_20180427T205603_20180427T214543_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_20180427T214543_20180427T223517_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_20180427T223517_20180427T232456_C002	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_20180427T232456_20180428T001430_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.

CS_OFFL_SIR_GOP_2_20180427T01520_20180427T015500_C001 CS_OFFL_SIR_GOP_2_20180427T015500_20180427T015500_C001 CS_OFFL_SIR_GOP_2_20180427T015500_20180427T024434_C001 CS_OFFL_SIR_GOP_2_20180427T024434_C0180427T03413_C001 CS_OFFL_SIR_GOP_2_20180427T03413_20180427T042347_C001 CS_OFFL_SIR_GOP_2_20180427T03413_20180427T042347_C001 CS_OFFL_SIR_GOP_2_20180427T03413_20180427T042347_C001 CS_OFFL_SIR_GOP_2_20180427T03413_20180427T060301_C001 CS_OFFL_SIR_GOP_2_20180427T060301_20180427T060301_C001 CS_OFFL_SIR_GOP_2_20180427T063127_20180427T060301_C001 CS_OFFL_SIR_GOP_2_20180427T063147_C0180427T04214_C001 CS_OFFL_SIR_GOP_2_20180427T063154_20180427T065240_C001 CS_OFFL_SIR_GOP_2_20180427T063154_20180427T065240_C001 CS_OFFL_SIR_GOP_2_20180427T063154_20180427T065240_C001 CS_OFFL_SIR_GOP_2_20180427T063154_20180427T061310000000000000000000000000000000000	•	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180427T015500_20180427T024434_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T024434_20180427T033413_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T033413_20180427T042347_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T033413_20180427T051327_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T063347_20180427T051327_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T063341_20180427T063301_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T063240_20180427T063240_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T074214_20180427T074214_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T074214_20180427T005128_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T101108_20180427T101108_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record. S_OFFL_SIR_GOP_2_20180427T1101108_20180427T1010108	L_SIR_GOP_2_20180426T232607_20180427T001546_C003	6T232607_20180427T001546_C003 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T015500_20180427T03413_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record commenced by the com	L_SIR_GOP_220180427T001546_20180427T010520_C001	7T001546_20180427T010520_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T024434_20180427T033413_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T042347_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T042347_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T051327_20180427T060301_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T060301_20180427T060301_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T074214_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T074214_20180427T083154_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T083154_20180427T092128_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T101108_20180427T101108_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T1011042_20180427T115021_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T1101042_20180427T115021_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T115021_20180427T1150848_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T1150848_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more record CS_OFFL_SIR_GOP_2_20180427T1150848_C001 Ocean Retracking Quality	L_SIR_GOP_220180427T010520_20180427T015500_C001	7T010520_20180427T015500_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T03413_20180427T051327_C001 CS_OFFL_SIR_GOP_2_20180427T062347_20180427T051327_C001 CS_OFFL_SIR_GOP_2_20180427T060301_20180427T060301_C001 CS_OFFL_SIR_GOP_2_20180427T060301_20180427T065240_C001 CS_OFFL_SIR_GOP_2_20180427T060301_20180427T065240_C001 CS_OFFL_SIR_GOP_2_20180427T065240_20180427T074214_C001 CS_OFFL_SIR_GOP_2_20180427T074214_20180427T074214_C001 CS_OFFL_SIR_GOP_2_20180427T074214_20180427T083154_C001 CS_OFFL_SIR_GOP_2_20180427T074214_20180427T092128_C001 CS_OFFL_SIR_GOP_2_20180427T092128_20180427T109108_C001 CS_OFFL_SIR_GOP_2_20180427T092128_20180427T101108_C001 CS_OFFL_SIR_GOP_2_20180427T1092128_20180427T101108_C001 CS_OFFL_SIR_GOP_2_20180427T101042_20180427T110042_C001 CS_OFFL_SIR_GOP_2_20180427T10042_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T110042_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T110042_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T1132935_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T1132935_C001 CS_OFFL_SIR_GOP_2_20180427T1123955_20180427T1132935_C001 CS_OFFL_SIR_GOP_2_20180427T1123955_20180427T1132935_C001 CS_OFFL_SIR_GOP_2_20180427T1123955_20180427T1132935_C001 CS_OFFL_SIR_GOP_2_20180427T1123955_20180427T1132935_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T115021_C001 CS_OFFL_SIR_GOP_2_20180427T115021_20180427T115021_C001 CCean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more recc CS_OFFL_SIR_GOP_2_20180427T1150848_20180427T150848_C001 CCEAN Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more recc CS_OFFL_SIR_GOP_2_20180427T150848_20180427T150848_C001 CCEAN Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more recc CS_OFFL_SIR_GOP_2_20180427T150848_20180427T150848_C001 CCEAN Retracking Quality Flag The Ocean Retracking Qual	L_SIR_GOP_220180427T015500_20180427T024434_C001	7T015500_20180427T024434_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_GOP_2_20180427T115021_20180427T123955_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more recommon recomm	L_SIR_GOP_220180427T101108_20180427T110042_C001	7T101108_20180427T110042_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T132935_20180427T141909_C001 CS_OFFL_SIR_GOP_2_20180427T141909_20180427T150848_C001 CS_OFFL_SIR_GOP_2_20180427T150848_20180427T155822_C001 CS_OFFL_SIR_GOP_2_20180427T155822_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T155822_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T155822_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T155822_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T155822_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T164802_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164802_20180427T173736_C001 CS_OFFL_SIR_GOP_3_20180427T164	L_SIR_GOP_220180427T110042_20180427T115021_C001	7T110042_20180427T115021_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_GOP_2_20180427T155822_20180427T164802_C001 CS_OFFL_SIR_GOP_2_20180427T164802_20180427T173736_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T141909_20180427T150848_C001	7T141909_20180427T150848_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_GOP_2_20180427T173736_20180427T182715_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T164802_20180427T173736_C001	7T164802_20180427T173736_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	L_SIR_GOP_220180427T173736_20180427T182715_C001	7T173736_20180427T182715_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T182715_20180427T191649_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T182715_20180427T191649_C001	7T182715_20180427T191649_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T191649_20180427T200629_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T191649_20180427T200629_C001	7T191649_20180427T200629_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T200629_20180427T205603_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T200629_20180427T205603_C001	7T200629_20180427T205603_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T205603_20180427T214543_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T205603_20180427T214543_C001	7T205603_20180427T214543_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T214543_20180427T223517_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T214543_20180427T223517_C001	7T214543_20180427T223517_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T223517_20180427T232456_C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T223517_20180427T232456_C002	7T223517_20180427T232456_C002 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180427T232456_20180428T001430_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more reco	L_SIR_GOP_220180427T232456_20180428T001430_C001	7T232456_20180428T001430_C001 Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.