

# IDEAS+ Daily Report for GOP data:

## <u>06/07/2018</u>



CRYOSAT				A CONTRACTOR
		1. Overview		
eport Production:	07-Aug-2018	Check	L1 & L2	P2P
	-	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int Product Software Check	Nominal Nominal	Nominal Nominal
	Geophysical Ocean Products (GOP)	Product Software Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
05-Jul-2018 None 06-Jul-2018 None 07-Jul-2018 Nothing	planned	2. Global Coverage		
				Aode Coverage

## 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Number of products with errors:

## 4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement recor	d. The bit value of this flag indicates	s any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurement	nent record. The bit value of this flag	g indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR prod	ucts due to a configuration issue. T	his is being investigated and will be updated in the next SW update.
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180706T094622_20180706T094835_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
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4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record	I. 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	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180706T060009_20180706T060557_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180706T130856_20180706T131007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T011514_20180706T011746_C001	Loss of Echo	The tracking echo is missing for one or more records
CC OFFL CID CODNIAD 204007067042246 204007067042602 C004	Loss of Esha	The tracting acts is missing for one or more records

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180706T060009_20180706T060557_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180706T130856_20180706T131007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T011514_20180706T011746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T043346_20180706T043602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T060925_20180706T061321_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T061330_20180706T061435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T092527_20180706T092951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T112812_20180706T112931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T143506_20180706T143802_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T165335_20180706T165945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T175319_20180706T175532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T193239_20180706T193314_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180706T220453_20180706T220615_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180706T102923_20180706T103238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180706T175851_20180706T180106_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: 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 1 Product Test Failed Description CS\_OFFL\_SIR\_GOPM\_2\_20180706T094622\_20180706T094835\_C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more records

#### 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. 75

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Product CS_OFFL_SIR_GOPM_2_20180706T000039_20180706T002224_C001	Ccean Range Averaging Status	Description           The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T002959_20180706T003408_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T003820_20180706T005547_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T012527_20180706T020049_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T020912_20180706T021257_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T021955_20180706T025116_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T025246_20180706T025543_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T030358_20180706T031832_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T032435_20180706T034028_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180706T034234_20180706T034751_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T034826_20180706T035004_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T035809_20180706T041133_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T041347_20180706T042705_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T042855_20180706T043010_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T045311_20180706T050333_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T050512_20180706T051919_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T052200_20180706T052702_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T054132_20180706T054807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_GOPM_2_20180706T055258_20180706T055725_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_GOPM_2_20180706T063649_20180706T065751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_GOPM_2_20180706T070229_20180706T070619_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_GOPM_2_20180706T071315_20180706T074032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_GOPM_2_20180706T081315_20180706T083735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
S OFFL SIR GOPM 2 20180706T084012 20180706T084532 C001	Ice Range Averaging Status	records. The loe Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T084539_20180706T084905_C001	Ice Range Averaging Status	records. The loe Range Averaging Status Flag has been set for one or more
S OFFL SIR GOPM 2 20180706T085246 20180706T090335 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T094839_20180706T100833_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T101202_20180706T101654_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T102012_20180706T102810_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
S_OFFL_SIR_GOPM_2_20180706T103238_20180706T110524_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T111845_20180706T111946_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
S_OFFL_SIR_GOPM_2_20180706T114039_20180706T115541_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
S_OFFL_SIR_GOPM_2_20180706T115944_20180706T120459_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
S_OFFL_SIR_GOPM_2_20180706T121142_20180706T123314_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180706T123559_20180706T124626_C001	Ocean Range Averaging Status	records.
S_OFFL_SIR_GOPM_2_20180706T125658_20180706T130042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
S_OFFL_SIR_GOPM_2_20180706T131600_20180706T132204_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T132352_20180706T133421_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T135120_20180706T142736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T143952_20180706T151134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T152112_20180706T152306_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T152512_20180706T152812_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T153029_20180706T155833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T161506_20180706T161739_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T162008_20180706T163612_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T165237_20180706T165335_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
		records.
	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPM_2_20180706T172540_20180706T172823_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T180229_20180706T180818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T181102_20180706T183422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T183737_20180706T184621_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T184930_20180706T191334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T194538_20180706T201321_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T201953_20180706T202414_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T202830_20180706T205417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T212103_20180706T213607_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T214140_20180706T215156_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T215905_20180706T220453_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T220729_20180706T221238_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T221551_20180706T222154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T224402_20180706T224501_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T225743_20180706T233112_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T233811_20180706T234324_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T234701_20180706T234811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T234933_20180707T000432_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180706T133817_20180706T134124_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180706T175624_20180706T175851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180706T201533_20180706T201705_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180706T002956_20180706T002959_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180706T063523_20180706T063648_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180706T151134_20180706T151837_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180706T221239_20180706T221551_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. 73

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180706T000039_20180706T002224_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_20180706T002959_20180706T003408_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T003820_20180706T005547_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_20180706T012527_20180706T020049_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_20180706T020912_20180706T021257_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T021955_20180706T025116_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_20180706T025246_20180706T025543_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T030358_20180706T031832_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_20180706T032435_20180706T034028_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_20180706T034234_20180706T034751_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T035809_20180706T041133_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_20180706T041347_20180706T042705_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_20180706T042855_20180706T043010_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_20180706T045311_20180706T050333_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_20180706T050512_20180706T051919_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_20180706T052200_20180706T052702_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180706T054132_20180706T054807_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_20180706T055258_20180706T055725_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\_20180706T063649\_20180706T065751\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T070229\_20180706T070619\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T071315\_20180706T074032\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T081315\_20180706T083735\_C001 CS OFFL SIR GOPM 2 20180706T084012 20180706T084532 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T084539\_20180706T084905\_C001 CS OFFL SIR GOPM 2 20180706T085246 20180706T090335 C001 CS OFFL SIR GOPM 2 20180706T090913 20180706T092526 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T094839\_20180706T100833\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T101202\_20180706T101654\_C001 CS OFFL SIR GOPM 2 20180706T102012 20180706T102810 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T103238\_20180706T110524\_C001 CS OFFL SIR GOPM 2 20180706T111845 20180706T111946 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T114039\_20180706T115541\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T115944\_20180706T120459\_C001 CS OFFL SIR GOPM 2 20180706T121142 20180706T123314 C001 CS OFFL SIR GOPM 2 20180706T123559 20180706T124626 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T125658\_20180706T130042\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T131600\_20180706T132204\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T132352\_20180706T133421\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T135120\_20180706T142736\_C001 CS OFFL SIR GOPM 2 20180706T143952 20180706T151134 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T152112\_20180706T152306\_C001 CS OFFL SIR GOPM 2 20180706T152512 20180706T152812 C001 CS OFFL SIR GOPM 2 20180706T153029 20180706T155833 C001 CS OFFL SIR GOPM 2 20180706T161506 20180706T161739 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T162008\_20180706T163612\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T165237\_20180706T165335\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T165945\_20180706T170225\_C001 CS OFFL SIR GOPM 2 20180706T170244 20180706T170712 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T170959\_20180706T172400\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T172540\_20180706T172823\_C001 CS OFFL SIR GOPM 2 20180706T180229 20180706T180818 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T181102\_20180706T183422\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T183737\_20180706T184621\_C001 CS OFFL SIR GOPM 2 20180706T184930 20180706T191334 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T194538\_20180706T201321\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T201953\_20180706T202414\_C001 CS OFFL SIR GOPM 2 20180706T202830 20180706T205417 C001 CS OFFL SIR GOPM 2 20180706T212103 20180706T213607 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T214140\_20180706T215156\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T215905\_20180706T220453\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T220729\_20180706T221238\_C001 CS OFFL SIR GOPM 2 20180706T221551 20180706T222154 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T224402\_20180706T224501\_C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T225743\_20180706T233112\_C001 CS OFFL SIR GOPM 2 20180706T233811 20180706T234324 C001 CS\_OFFL\_SIR\_GOPM\_2\_20180706T234933\_20180707T000432\_C001 CS\_OFFL\_SIR\_GOPN\_2\_20180706T133817\_20180706T134124\_C001 CS OFFL SIR GOPN 2 20180706T175624 20180706T175851 C001 CS\_OFFL\_SIR\_GOPN\_2\_20180706T201533\_20180706T201705\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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

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

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

Ice Backscatter Averaging Status

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

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

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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

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

more records.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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.

CS OFFL SIR GOP 2 20180706T093527 20180706	CT402502 C004	Power scaling error	There is an error in the scaling of the L2 waveform for one or more re
Product		Test Failed	Description
Number of products with errors:	1		
CryoSat P2P data includes a measurement confidence t	flag for each 20-Hz mea	asurement record. The bit value of this flag	indicates any problems when set.
6.5 P2P Measurement Confidence Dat	ta Check		
	-		
Number of products with errors:			
For all products, the auxiliary corrections within the Geo		cked for the default error value (32767)	
6.4 P2P Auxiliary Correction Error Ch	eck		
Number of products with errors:	0		
Each product is checked for missing Data Set Descripto	rs with respect to a pre-	determined baseline and also to check th	e validity of Auxiliary Data Files is correct.
6.3 P2P Auxiliary Data File Usage Che	eck		
value of products with errors.	0		
-or all products, a series of pre-defined checks are performed to the series of products with errors:		SPH in order to identify any inconsistenci	es and/or errors raised by the ground-segment processing chain.
•		0000	
6.2 P2P Product Header Analysis			
Number of products with errors:	0		
ach product, retrieved and unpacked from the science	server, is checked to er	nsure it consists of both an XML header fil	e (.HDR) and a NetCDF product file (.nc).
5.1 P2P Product Format Check			
	6. GOP L:	2 Pole-to-Pole Data Qua	lity Check
Number of products with errors:	51		
		d and sea ice, but this is to be expected.	The number of products with this error flag set is given below.
CryoSat L2 data includes an ocean retracking quality fla	-	•	
5.8 L2 Ocean Retracking Quality Chec	≿k		
	-		
CS_OFFL_SIR_GOPR_2_20180706T221239_2018070	6T221551_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
CS_OFFL_SIR_GOPR_2_20180706T151134_2018070	6T151837_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
CS_OFFL_SIR_GOPR_2_20180706T063523_2018070	6T063648_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one more records.
	6T002959_C001	Ice Backscatter Averaging Status	records.

#### 6.6 P2P Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180705T234005_20180706T002941_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_220180706T002941_20180706T011919_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_220180706T011919_20180706T020854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180706T020854_20180706T025832_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_220180706T025832_20180706T034808_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_220180706T034808_20180706T043746_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_220180706T043746_20180706T052721_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_220180706T052721_20180706T061659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180706T061659_20180706T070635_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_220180706T070635_20180706T075613_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_220180706T075613_20180706T084549_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_220180706T084549_20180706T093527_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_220180706T093527_20180706T102502_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_220180706T102502_20180706T111440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180706T111440_20180706T120416_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_220180706T120416_20180706T125354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180706T125354_20180706T134329_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_20180706T134329_20180706T143307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180706T143307_20180706T152243_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_220180706T152243_20180706T161221_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_220180706T161221_20180706T170156_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_220180706T170156_20180706T175134_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_20180706T175134_20180706T184110_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_20180706T184110_20180706T193048_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_20180706T193048_20180706T202024_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_20180706T202024_20180706T211002_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_20180706T211002_20180706T215937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180706T215937_20180706T224915_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_20180706T224915_20180706T233851_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_220180706T233851_20180707T002829_C003	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. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180705T234005_20180706T002941_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_220180706T002941_20180706T011919_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_220180706T011919_20180706T020854_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_220180706T020854_20180706T025832_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_220180706T025832_20180706T034808_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_220180706T034808_20180706T043746_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_220180706T043746_20180706T052721_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_220180706T052721_20180706T061659_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_220180706T061659_20180706T070635_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_220180706T070635_20180706T075613_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_220180706T075613_20180706T084549_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_220180706T084549_20180706T093527_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_220180706T093527_20180706T102502_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_220180706T102502_20180706T111440_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_220180706T111440_20180706T120416_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_220180706T120416_20180706T125354_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_220180706T125354_20180706T134329_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_220180706T134329_20180706T143307_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_220180706T143307_20180706T152243_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_220180706T152243_20180706T161221_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_220180706T161221_20180706T170156_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_220180706T170156_20180706T175134_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_220180706T175134_20180706T184110_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_220180706T184110_20180706T193048_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_220180706T193048_20180706T202024_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_20180706T202024_20180706T211002_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_220180706T211002_20180706T215937_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_220180706T215937_20180706T224915_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_220180706T224915_20180706T233851_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_20180706T233851_20180707T002829_C003	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 2	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 la	nd 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: 29		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180705T234005_20180706T002941_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_2_20180706T002941_20180706T011919_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T011919_20180706T020854_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T020854_20180706T025832_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T025832_20180706T034808_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T034808_20180706T043746_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T043746_20180706T052721_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T052721_20180706T061659_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T061659_20180706T070635_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T070635_20180706T075613_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T075613_20180706T084549_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T084549_20180706T093527_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T093527_20180706T102502_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T102502_20180706T111440_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T111440_20180706T120416_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T120416_20180706T125354_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T125354_20180706T134329_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T134329_20180706T143307_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T143307_20180706T152243_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T152243_20180706T161221_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T161221_20180706T170156_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T170156_20180706T175134_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T175134_20180706T184110_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T184110_20180706T193048_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T193048_20180706T202024_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T202024_20180706T211002_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T211002_20180706T215937_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T215937_20180706T224915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220180706T224915_20180706T233851_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record