

# IDEAS+ Daily Report for IOP data:

# <u>07/12/2017</u>



CRYOSAT				1
		1. Overview		
		Check	L1 & L2	P2P
eport Production:	11-Dec-2017	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
	Intermediate Ocean Products (IOP)	Product Format 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	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
sion / Instrument Ne	we			
6-Dec-2017 None				
7-Dec-2017 None				
B-Dec-2017 Nothing	alannad			
S-Dec-2017 Nothing	plained			
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		2. Global Coverage		
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		3 Instrument Configuration		

# 3. Instrument Configuration

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

SIRAL - A

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SIRAL instrument(s) in use:

4. IOP 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

# 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set. 0

60

Number of products with errors:

# 4.5 L1B Measurement Confidence Data Check

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

Number of products with errors: 60		
Product	Test Failed	Description
CS_OFFL_SIR_IOPR1B_20171207T002752_20171207T003432_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T004453_20171207T004639_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T012032_20171207T012042_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T012302_20171207T012358_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T012452_20171207T012914_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T012914_20171207T013023_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T015341_20171207T015442_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T030249_20171207T030506_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T044229_20171207T044841_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T045424_20171207T045638_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T053009_20171207T053123_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T061956_20171207T062218_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T062234_20171207T062333_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T062405_20171207T062836_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T072237_20171207T072339_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T075815_20171207T075931_C001	Attitude correction missing	The attitude has not been corrected
	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T090127_20171207T090317_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T090756_20171207T091154_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T092839_20171207T093009_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171207T110856 20171207T110932 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T111059_20171207T111220_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T111358_20171207T111830_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T111833_20171207T112108_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T112216_20171207T113206_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207514_2017120754_2017120731_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_201712077121337_201712077121343_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T125639_20171207T125656_C001	Attitude correction missing	The attitude has not been corrected
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CS_OFFL_SIR_IOPR1B_20171207T131052_20171207T131158_C001	Attitude correction missing	The attitude has not been corrected The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T135248_20171207T135254_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T135646_20171207T140104_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T140104_20171207T140341_C001	Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20171207T141619_20171207T141827_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T144046_20171207T144758_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T150715_20171207T150951_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T160717_20171207T160733_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T160949_20171207T161039_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T161202_20171207T161418_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T161430_20171207T161513_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T164017_20171207T164459_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T164507_20171207T164659_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T175752_20171207T180628_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T184240_20171207T184340_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T185505_20171207T185722_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T190818_20171207T191354_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T193444_20171207T194224_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T194237_20171207T194348_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T211207_20171207T211242_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T212732_20171207T212806_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T213445_20171207T213522_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T215943_20171207T220256_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T221251_20171207T221617_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T223755_20171207T224040_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T225239_20171207T225938_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171207T225938_20171207T230113_C001	Attitude correction missing	The attitude has not been corrected

## 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.

23

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171207T081525_20171207T084726_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171207T215227_20171207T215304_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T030921_20171207T031032_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T031155_20171207T031404_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T045113_20171207T045321_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T062333_20171207T062405_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T071947_20171207T072236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T081043_20171207T081525_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T093010_20171207T093114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T130019_20171207T130132_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T143959_20171207T144046_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T153326_20171207T153857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T153901_20171207T153936_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T161513_20171207T161929_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171207T213240_20171207T213444_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171207T020817_20171207T021401_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171207T045106_20171207T045113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171207T084726_20171207T085055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171207T094157_20171207T094944_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171207T102712_20171207T103018_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP 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: 0

## 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:

#### 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:

## 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. 78

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171207T000501_20171207T000927_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T001017_20171207T002752_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T004639_20171207T011726_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T013526_20171207T015341_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T015442_20171207T020817_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T021637_20171207T021836_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T021954_20171207T022339_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T024301_20171207T025224_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20171207T031033\_20171207T031155\_C001 CS OFFL SIR IOPM 2 20171207T031434 20171207T031702 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T031811\_20171207T033142\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T034743\_20171207T034904\_C001 CS OFFL SIR IOPM 2 20171207T035028 20171207T035052 C001 CS OFFL SIR IOPM 2 20171207T035450 20171207T040240 C001 CS OFFL SIR IOPM 2 20171207T040521 20171207T042004 C001 CS OFFL SIR IOPM 2 20171207T045802 20171207T053009 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T053313\_20171207T053526\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T053542\_20171207T054132\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T054500\_20171207T060946\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T064151\_20171207T065222\_C001 CS OFFL SIR IOPM 2 20171207T065758 20171207T070818 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T072339\_20171207T075059\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T075932\_20171207T080122\_C001 CS OFFL SIR IOPM 2 20171207T081525 20171207T084726 C001 CS OFFL SIR IOPM 2 20171207T085434 20171207T090012 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T090317\_20171207T090756\_C001 CS OFFL SIR IOPM 2 20171207T093911 20171207T094104 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T095356\_20171207T102711\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T103337\_20171207T103850\_C001 CS OFFL SIR IOPM 2 20171207T104327 20171207T110037 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T113206\_20171207T120553\_C001 CS OFFL SIR IOPM 2 20171207T121343 20171207T121754 C001 CS OFFL SIR IOPM 2 20171207T122238 20171207T123823 C001 CS OFFL SIR IOPM 2 20171207T125031 20171207T125619 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T125819\_20171207T130019\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T131158\_20171207T132313\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T132754\_20171207T132927\_C001 CS OFFL SIR IOPM 2 20171207T132929 20171207T134513 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T134716\_20171207T135235\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T140341\_20171207T141613\_C001 CS OFFL SIR IOPM\_2\_20171207T141827\_20171207T143543\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T145745\_20171207T150647\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T150951\_20171207T152405\_C001 CS OFFL SIR IOPM 2 20171207T152641 20171207T153146 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T153210\_20171207T153326\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T153936\_20171207T154130\_C001 CS OFFL SIR IOPM 2 20171207T155949 20171207T160204 C001 CS OFFL SIR IOPM 2 20171207T160327 20171207T160717 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T164659\_20171207T170313\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T170633\_20171207T171102\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T171736\_20171207T175159\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T181717\_20171207T184239\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T184456\_20171207T185016\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T185722\_20171207T190818\_C001 CS OFFL SIR IOPM 2 20171207T191354 20171207T192858 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T195444\_20171207T202127\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T202441\_20171207T203253\_C001 CS OFFL SIR IOPM 2 20171207T203738 20171207T211034 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T212324\_20171207T212533\_C001

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

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CS_OFFL_SIR_IOPM_2_20171207T215426_20171207T215943_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T220422_20171207T220943_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T221617_20171207T223754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T224040_20171207T225022_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T230150_20171207T230608_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T232158_20171207T232644_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T232832_20171207T233856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T234501_20171207T234842_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171207T235531_20171208T000045_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171207T152455_20171207T152641_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171207T202917_20171207T202919_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T030506_20171207T030921_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T045106_20171207T045113_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T062405_20171207T062836_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T075815_20171207T075931_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T094157_20171207T094944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T161202_20171207T161418_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T170314_20171207T170402_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171207T203409_20171207T203738_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. 74

CS_OFFL_SIR_IOPM_2_20171207T0000501_20171207T000252_0001         SVH Averaging Status, Decan Imore records.           CS_OFFL_SIR_IOPM_2_20171207T001532_0011         SVH Averaging Status, Decan Imore records.           CS_OFFL_SIR_IOPM_2_20171207T001532_0011         SVH Averaging Status, Decan Imore records.           CS_OFFL_SIR_IOPM_2_20171207T015362_0011         SVH Averaging Status, Decan Imore records.           CS_OFFL_SIR_IOPM_2_20171207T015362_0011         SVH Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T01542_00171207T01541_0011         SVH Averaging Status           SVH Averaging Status         The records.           CS_OFFL_SIR_IOPM_2_20171207T01542_00171207T02087_0001         to Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T02169C_0001         to Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T02169C_00111207T02239_0001         to Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T02169C_00111207T02239_0001         to Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T02169C_0011         to Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T03163_0711207T02239_0001         to Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T03164_00111207T03154_0001         SVH Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T03164_00111207T03154_0001         SVH Averaging Status           CS_OFFL_SIR_IOPM_2_20171207T03164_00111207T03164_0001 <td< th=""><th>Product</th><th>Test Failed</th><th>Description</th></td<>	Product	Test Failed	Description
CE_DFL_SIR_IOPM_2_201712071040102/12/1000         Backscatter Averaging Status         The SWH and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_201712071013526_201712071013541_C0011         SWH Averaging Status Coean         The SWH and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_201712071013542_2017120710120163_C0011         SWH Averaging Status Coean         The SWH and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_201712071021642_201712071021636_C0011         toe Backscatter Averaging Status         The Ice Backscatter Averaging Status         The Ice Backscatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_20171207102164_201712071021636_C0011         toe Backscatter Averaging Status         The Ice Backscatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_20171207102164_201712071022238_C0011         toe Backscatter Averaging Status         The Ice Backscatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_20171207103181_20171207103242_C0011         toe Backscatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_20171207104560_20171207104200_C0011         toe Backscatter Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_20171207104560_20171207105358_C0011         toe Backscatter Averaging Status Flags have been set for one or more records.           <	CS_OFFL_SIR_IOPM_2_20171207T000501_20171207T000927_C001		
LS_OFL_SIR_IOPM_2_20171201704328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207101328_20171207102183_20171207103115_2001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207102183_201712071021532_2000       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207103115_20171207103115_2001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207103115_20171207103115_2001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207103115_201712071040204_2001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207103145_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040204_201712071040	CS_OFFL_SIR_IOPM_2_20171207T001017_20171207T002752_C001		
CS_OFFL_SIR_JOPM_2_20171207105442_20171207102681_0001         Backscatter Averaging Status         more records.           CS_OFFL_SIR_JOPM_2_20171207102637_20171207102687_0001         SWH Averaging Status         The SWH and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_201712071021637_201712071022339_C001         Ice Backscatter Averaging Status         The De Backscatter Averaging Status Flag have been set for one or more records.           CS_OFFL_SIR_JOPM_2_201712071024301_201712071025224_C001         Backscatter Averaging Status         The De Backscatter Averaging Status Flag have been set for one or more records.           CS_OFFL_SIR_JOPM_2_201712071034301_201712071025224_C001         Backscatter Averaging Status         The De Backscatter Averaging Status Flag have been set for one or more records.           CS_OFFL_SIR_JOPM_2_20171207103181_20171207103145_C001         Ice Backscatter Averaging Status Flag         The De Backscatter Averaging Status Flag have been set for one or more records.           CS_OFFL_SIR_JOPM_2_20171207103181_201712071033142_C001         Backscatter Averaging Status Flag         The SWH and Ocean Averaging Status Flag have been set for one or more records.           CS_OFFL_SIR_JOPM_2_201712071040240_C001         Backscatter Averaging Status Flag         The SWH and Ocean Averaging Status Flag have been set for one or more records.           CS_OFFL_SIR_JOPM_2_201712071045304_201712071042040_C001         Backscatter Averaging Status Flag         The SWH and Ocean Averaging Status Flag have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T004639_20171207T011726_C001		
CS_OFFL_SIR_IOPM_2_20171207702636_0001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_201712077021637_201712077021636_0001       te Backscatter Averaging Status       The loc Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201712077021637_201712077022390_0001       te Backscatter Averaging Status       The loc Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201712077034301_201712077031352_0001       te Backscatter Averaging Status       The SWH and Ocean Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207703131_20171031155_0001       te Backscatter Averaging Status       The loc Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201712077040521_201712077040240_0001       te Backscatter Averaging Status       The loc Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201712077040521_201712077040240_0001       te Backscatter Averaging Status       The loc Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201712077040521_201712077040240_0001       te Backscatter Averaging Status       The loc Backscatter Averaging Status         CS_OFFL_SIR_IOPM_2_201712077053312_01712077053309_00101       te Backscatter Averaging Status       The loc Backscatter Averaging Status         CS_OFFL_SIR_IOPM_2_201712077054500_20171207705452_00171207705452_00171207705450_20171207705450_20171207705	CS_OFFL_SIR_IOPM_2_20171207T013526_20171207T015341_C001		
CS_OFFL_SIR_IOPM_2_20171207T021964_20171207T022339_C001 to Backscatter Averaging Status Fectords. CS_OFFL_SIR_IOPM_2_20171207T024301_20171207T025224_C001 SWH Averaging Status Cean Backscatter Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T024301_20171207T025224_C001 SWH Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T03133_20171207T03142_C001 to Backscatter Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T03145_020171207T03142_C001 te Backscatter Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T04552_120171207T040240_C001 te Backscatter Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T040521_20171207T040240_C001 BWH Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T040521_20171207T040500_C001 BWH Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T053313_20171207T053526_C001 ce Backscatter Averaging Status The Ice Backscatter Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T055342_20171207T054132_C001 ce Backscatter Averaging Status The Ice Backscatter Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T06946_C001 BWH Averaging Status The Ice Backscatter Averaging Status Flags have been set for one or more fectords. CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T06948_C001 BWH Averaging Status Cean The SWH and Ocean Averaging Status Flags have been set for one or more feecords. CS_OFFL_SIR_IOPM_2_20171207T06458_20171207T06958_C001 BWH Averaging Status Cean The SWH and Ocean Averaging	CS_OFFL_SIR_IOPM_2_20171207T015442_20171207T020817_C001		
CS_OFFL_SIR_IOPM_2_2017120/T02454_20171207T02433_0001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20171207T024301_20171207T024224_C001       SWH Averaging Status. Cean       The SWH and Ocean Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T03115_C001       tee Backscatter Averaging Status. Cean       The SWH and Ocean Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T03111_20171033142_C001       SWH Averaging Status. Cean       The SWH and Ocean Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T034540_20171207T040240_C001       tee Backscatter Averaging Status       The SWH and Ocean Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T046502_20171207T04204_C001       SWH Averaging Status. Ocean       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T045802_20171207T04500_C001       SWH Averaging Status. Ocean       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053502_C001       tce Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T054542_20171207T05432_C001       tce Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064400_20171207T064400_C01       SWH Averaging Status Cean	CS_OFFL_SIR_IOPM_2_20171207T021637_20171207T021836_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_201712071024301_20171207103242_0001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T031033_20171207T031155_C001       Ice Backscatter Averaging Status       The CB Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T031811_20171207T033142_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T04521_20171207T040240_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T04520_20171207T04204_C001       SWH Averaging Status Coean Backscatter Averaging Status       The SWH and Ocean Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T045802_20171207T053309_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053313_20171207T053262_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T05342_20171207T064132_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064150_20171207T06446_C001       Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag have been set for one or more records. <td>CS_OFFL_SIR_IOPM_2_20171207T021954_20171207T022339_C001</td> <td>Ice Backscatter Averaging Status</td> <td>0 0 0</td>	CS_OFFL_SIR_IOPM_2_20171207T021954_20171207T022339_C001	Ice Backscatter Averaging Status	0 0 0
CS_OFFL_SIR_IOPM_2_201712071031033_201712071031155_C001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20171207T031811_20171027003142_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T035450_20171207T040240_C001       Ice Backscatter Averaging Status, Ocean       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T04521_201710207T04004_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T045802_20171207T05309_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053313_20171207T053526_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status         CS_OFFL_SIR_IOPM_2_20171207T053542_20171207T053526_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status         CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T064132_C001       Ice Backscatter Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064151_2017107T06818_C001       Backscatter Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T05554_20171207T07818_C001       SWH Ave	CS_OFFL_SIR_IOPM_2_20171207T024301_20171207T025224_C001		
CS_OFFL_SIR_IOPM_2_2017120/T03161_0017120/T03164_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T040540_2001       Ice Backscatter Averaging Status       The loce Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T040521_20171207T040240_C001       SWH Averaging Status       The set Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T045802_20171207T05309_C001       SWH Averaging Status       The set Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T045802_20171207T053526_C001       Ice Backscatter Averaging Status       The loce Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053542_20171207T054132_C001       Ice Backscatter Averaging Status       The loce Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T05450_20171207T054132_C001       Ice Backscatter Averaging Status Coean Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T06946_C001       SWH Averaging Status Coean The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T070818_C001       SWH Averaging Status Coean The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T07154_20171207T07947_C001       Ice Backscatte	CS_OFFL_SIR_IOPM_2_20171207T031033_20171207T031155_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_20171207105450_201712071040240_C001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20171207T040621_20171207T045009_C001       Backscatter Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053313_20171207T053526_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053542_20171207T053526_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053542_20171207T053542_20171207T054132_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T06946_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T065758_20171207T070818_C001       SWH Averaging Status       The Ice Backscatter Averaging Status         CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T076919_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T031811_20171207T033142_C001		
CS_OFFL_SIR_IOPM_2_201712071040321_201712071053009_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T053019_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053313_20171207T053526_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T053542_20171207T054132_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T064946_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T064151_201710207T065222_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_IOPM_2_20171207T064151_201710207T06818_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_IOPM_2_20171207T07558_20171207T0791847_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T075059_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T035450_20171207T040240_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_201712077053313_201712077053309_C001         Backscatter Averaging Status         more records.           CS_OFFL_SIR_IOPM_2_201712077053313_201712077053326_C001         Ice Backscatter Averaging Status         The Ice Backscatter Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_IOPM_2_201712077053542_201712077054132_C001         Ice Backscatter Averaging Status         The Ice Backscatter Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_IOPM_2_201712077054500_201712077060946_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_IOPM_2_201712077064151_201712077065222_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_IOPM_2_201712077065758_201712077070818_C001         SWH Averaging Status         The SWH and Ocean Averaging Status Flags have been set for one or more records.           CS_OFFL_SIR_IOPM_2_201712077071524_201712077071947_C001         Ice Backscatter Averaging Status         The Ice Backscatter Averaging Status           CS_OFFL_SIR_IOPM_2_201712077075932_2017120770760122_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_IOPM_2_201712077075932_201712077084726_C001         SWH Averaging Status, Ocean Backscatter Averaging Status         The SWH and Ocea	CS_OFFL_SIR_IOPM_2_20171207T040521_20171207T042004_C001		
CS_OFFL_SIR_IOPM_2_20171207T053542_00171207T054500_20171207T054500_20171207T054500_20171207T054500_20171207T060946_C001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T060946_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T065758_20171207T065758_20171207T070818_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T07558_20171207T07154_2017107070818_C001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T075239_20171207T075059_C001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T0780122_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T081525_20171207T084726_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T084324_20171207T0804726_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20171207T045802_20171207T053009_C001		
CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T060946_C001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T065758_20171207T070818_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T071524_20171207T071947_C001Ice Backscatter Averaging StatusThe CWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T07539_20171207T075059_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T075059_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T084726_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001Ice Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001Ice Backscatter Aver	CS_OFFL_SIR_IOPM_2_20171207T053313_20171207T053526_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001Backscatter Averaging Statusmore records.CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T065758_20171207T070818_C001Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T071524_20171207T071947_C001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T072339_20171207T075059_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T0708122_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T0781525_20171207T084726_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T0845434_20171207T084726_C001SWH Averaging Status, Ocean Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001Ice Backscatter Averaging StatusThe SWH and Ocean Averaging Status Flags have been set for one or more records.CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001Ice Backscatter Averaging StatusThe	CS_OFFL_SIR_IOPM_2_20171207T053542_20171207T054132_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_201712071064151_201712071070818_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T07558_20171207T070818_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T071524_20171207T071947_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T072339_20171207T075059_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_IOPM_2_20171207T075932_20171207T075059_C001       SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean SWH Averaging Status, Ocean More records.       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T081525_20171207T084726_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_IOPM_2_20171207T0845434_20171207T090012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001 <td< td=""><td>CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T060946_C001</td><td></td><td></td></td<>	CS_OFFL_SIR_IOPM_2_20171207T054500_20171207T060946_C001		
CS_OFFL_SIR_IOPM_2_20171207T071524_20171207T071947_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T071524_20171207T071947_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T072339_20171207T075059_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_IOPM_2_20171207T075932_20171207T080122_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_IOPM_2_20171207T075932_20171207T084726_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_IOPM_2_20171207T085434_20171207T084726_C001       SWH Averaging Status, Ocean Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T09012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       T	CS_OFFL_SIR_IOPM_2_20171207T064151_20171207T065222_C001		
CS_OFFL_SIR_IOPM_2_20171207T075339_20171207T075059_C001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20171207T075339_20171207T075059_C001       SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T080122_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_IOPM_2_20171207T081525_20171207T084726_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_IOPM_2_20171207T081525_20171207T084726_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T08434_20171207T090012_C001       Ice Backscatter Averaging Status       The lce Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The lce Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The lce Backscatter Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T065758_20171207T070818_C001	0 0 1	000
CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T080122_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T080122_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T081525_20171207T084726_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001       SWH Averaging Status, Ocean       The Ice Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T080017_00017_C0011       SWH Averaging Status, Ocean       The Ice Backscatter Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T071524_20171207T071947_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_20171207T081525_20171207T084726_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T081525_20171207T084726_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_3_20171207T085434_20171207T090012_C001       SWH Averaging Status, Ocean       The loe Backscatter Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T072339_20171207T075059_C001		
CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001       SWH Averaging Status, Ocean       The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20171207T075932_20171207T080122_C001		
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	CS_OFFL_SIR_IOPM_2_20171207T085434_20171207T090012_C001	Ice Backscatter Averaging Status	
	CS_OFFL_SIR_IOPM_2_20171207T090317_20171207T090756_C001		

CS\_OFFL\_SIR\_IOPM\_2\_20171207T093911\_20171207T094104\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T095356\_20171207T102711\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T103337\_20171207T103850\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T104327\_20171207T110037\_C001 CS OFFL SIR IOPM 2 20171207T113206 20171207T120553 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T121343\_20171207T121754\_C001 CS OFFL SIR IOPM 2 20171207T122238 20171207T123823 C001 CS OFFL SIR IOPM 2 20171207T125031 20171207T125619 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T125819\_20171207T130019\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T131158\_20171207T132313\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T132929\_20171207T134513\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T134716\_20171207T135235\_C001 CS OFFL SIR IOPM 2 20171207T140341 20171207T141613 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T141827\_20171207T143543\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T145745\_20171207T150647\_C001 CS OFFL SIR IOPM 2 20171207T150951 20171207T152405 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T152641\_20171207T153146\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T153210\_20171207T153326\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T153936\_20171207T154130\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T160327\_20171207T160717\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T164659\_20171207T170313\_C001 CS OFFL SIR IOPM 2 20171207T170633 20171207T171102 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T171736\_20171207T175159\_C001 CS OFFL SIR IOPM 2 20171207T181717 20171207T184239 C001 CS OFFL SIR IOPM 2 20171207T184456 20171207T185016 C001 CS OFFL SIR IOPM 2 20171207T185722 20171207T190818 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T191354\_20171207T192858\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T195444\_20171207T202127\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T202441\_20171207T203253\_C001 CS OFFL SIR IOPM 2 20171207T203738 20171207T211034 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T212324\_20171207T212533\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T215426\_20171207T215943\_C001 CS OFFL SIR IOPM 2 20171207T220422 20171207T220943 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T221617\_20171207T223754\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T224040\_20171207T225022\_C001 CS OFFL SIR IOPM 2 20171207T230150 20171207T230608 C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T232158\_20171207T232644\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20171207T232832\_20171207T233856\_C001 CS OFFL SIR IOPM 2 20171207T234501 20171207T234842 C001 CS OFFL SIR IOPM 2 20171207T235531 20171208T000045 C001 CS\_OFFL\_SIR\_IOPN\_2\_20171207T152455\_20171207T152641\_C001 CS\_OFFL\_SIR\_IOPN\_2\_20171207T202917\_20171207T202919\_C001 CS\_OFFL\_SIR\_IOPR\_2\_20171207T030506\_20171207T030921\_C001 CS\_OFFL\_SIR\_IOPR\_2\_20171207T045106\_20171207T045113\_C001 CS\_OFFL\_SIR\_IOPR\_2\_20171207T062405\_20171207T062836\_C001 CS\_OFFL\_SIR\_IOPR\_2\_20171207T075815\_20171207T075931\_C001 CS OFFL SIR IOPR 2 20171207T094157 20171207T094944 C001 CS\_OFFL\_SIR\_IOPR\_2\_20171207T161202\_20171207T161418\_C001 CS\_OFFL\_SIR\_IOPR\_2\_20171207T170314\_20171207T170402\_C001 CS OFFL SIR IOPR 2 20171207T203409 20171207T203738 C001

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#### 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. IOP 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).

55

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. 27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171206T234921_20171207T003857_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171207T003857_20171207T012835_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T012835_20171207T021810_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T021810_20171207T030748_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_IOP_220171207T030748_20171207T035724_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_IOP_220171207T044702_20171207T053637_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_IOP_220171207T053637_20171207T062615_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_IOP_220171207T062615_20171207T071551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T071551_20171207T080529_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_IOP_220171207T080529_20171207T085505_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T085505_20171207T094443_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_IOP_220171207T094443_20171207T103418_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_IOP_220171207T103418_20171207T112356_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_IOP_220171207T112356_20171207T121332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T121332_20171207T130310_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_IOP_220171207T135245_20171207T144223_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_IOP_220171207T144223_20171207T153159_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_IOP_220171207T153159_20171207T162137_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_IOP_220171207T162137_20171207T171113_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_IOP_220171207T171113_20171207T180050_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_IOP_220171207T180050_20171207T185026_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_IOP_220171207T185026_20171207T194004_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_IOP_220171207T194004_20171207T202940_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_IOP_220171207T211918_20171207T220853_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_IOP_220171207T220853_20171207T225831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOP\_2\_\_20171207T225831\_20171207T234807\_C001

CS\_OFFL\_SIR\_IOP\_2\_20171207T234807\_20171208T003745\_C001

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

The Ocean and Ice Range Averaging Status Flags have been set for one or more records. 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. 27

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171206T234921_20171207T003857_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_IOP_220171207T003857_20171207T012835_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_IOP_220171207T012835_20171207T021810_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_IOP_220171207T021810_20171207T030748_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_IOP_220171207T030748_20171207T035724_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_IOP_220171207T044702_20171207T053637_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_IOP_220171207T053637_20171207T062615_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_IOP_220171207T062615_20171207T071551_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_IOP_220171207T071551_20171207T080529_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_IOP_220171207T080529_20171207T085505_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_IOP_220171207T085505_20171207T094443_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_IOP_220171207T094443_20171207T103418_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_IOP_220171207T103418_20171207T112356_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_IOP_220171207T112356_20171207T121332_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_IOP_220171207T121332_20171207T130310_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_IOP_220171207T135245_20171207T144223_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_IOP_220171207T144223_20171207T153159_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_IOP_220171207T153159_20171207T162137_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_IOP_220171207T162137_20171207T171113_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_IOP_220171207T171113_20171207T180050_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_IOP_220171207T180050_20171207T185026_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_IOP_220171207T185026_20171207T194004_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_IOP_220171207T194004_20171207T202940_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_IOP_220171207T211918_20171207T220853_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_IOP_220171207T220853_20171207T225831_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_IOP_220171207T225831_20171207T234807_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_IOP_220171207T234807_20171208T003745_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 21

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171206T234921_20171207T003857_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T003857_20171207T012835_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T012835_20171207T021810_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T021810_20171207T030748_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T030748_20171207T035724_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T044702_20171207T053637_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T062615_20171207T071551_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T071551_20171207T080529_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T080529_20171207T085505_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T085505_20171207T094443_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T094443_20171207T103418_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T112356_20171207T121332_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T121332_20171207T130310_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T135245_20171207T144223_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T144223_20171207T153159_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T153159_20171207T162137_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T180050_20171207T185026_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T194004_20171207T202940_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T211918_20171207T220853_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T220853_20171207T225831_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171207T225831_20171207T234807_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.