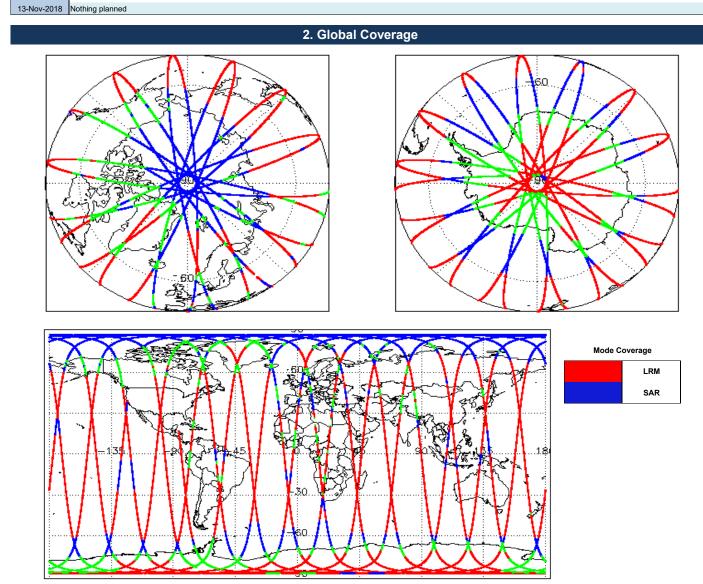


# IDEAS+ Daily Report for IOP data:

# <u>12/11/2018</u>

1. Overview				
Dement Dreductions	15-Nov-2018	Check	L1 & L2	P2P
Report Production:	13-1004-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Useu.	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

# Mission / Instrument News 11-Nov-2018 None None



# 3. Instrument Configuration

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

SIRAL - A

0

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

4.3 L1B Auxilary Data File Usage Check		· · · · · · · · · · · · · · · · · · ·		
Each product is checked for missing Data Set Descriptors with respect to a pr	re-determined baseline and also to	check 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 reco	rd. The bit value of this flag indicate	es 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 measure	ment record. The bit value of this fl	ag indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.				
the hag is carried in the hours is carried by better the hours of the		This is being investigated and will be updated in the next SW update.		
	acto dao to a comiguration locato. I	nis is being investigated and will be updated in the next sw update.		
Number of products with errors: 0		nis is being investigated and will be updated in the next Sw update.		
Number of products with errors: 0		nis is being investigated and will be updated in the next Ow update.		
Number of products with errors:       0         4.6 L1B Waveform Group Data Check				
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record	rd. The bit value of this flag indicate			
Number of products with errors:         0           4.6 L1B Waveform Group Data Check           CryoSat L1B data includes a waveform data flag for each measurement recor           Loss of Echo Flag: This flag is currently set for products over land, but this is	rd. The bit value of this flag indicate			
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       21	rd. The bit value of this flag indicate			
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       21         Product	rd. The bit value of this flag indicate s to be expected.	s any problems when set.		
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       21         Product       21         CS_OFFL_SIR_IOPM1B_20181112T071107_20181112T074006_C001	rd. The bit value of this flag indicate s to be expected.	s any problems when set.		
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       21         Product       21         CS_OFFL_SIR_IOPM1B_20181112T071107_20181112T074006_C001         CS_OFFL_SIR_IOPM1B_20181112T212827_20181112T214342_C001	rd. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo	s any problems when set.           Description           The tracking echo is missing for one or more records		
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       21         Product         CS_OFFL_SIR_IOPM1B_20181112T071107_20181112T074006_C001         CS_OFFL_SIR_IOPM1B_20181112T212827_20181112T214342_C001         CS_OFFL_SIR_IOPM1B_20181112T221700_20181112T223259_C001	rd. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo Loss of Echo	s any problems when set.           Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records		
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is	rd. The bit value of this flag indicate s to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo Loss of Echo	s any problems when set.		
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       21         Product       21         CS_OFFL_SIR_IOPM1B_20181112T071107_20181112T074006_C001         CS_OFFL_SIR_IOPM1B_20181112T212827_20181112T214342_C001         CS_OFFL_SIR_IOPM1B_20181112T221700_20181112T223259_C001         CS_OFFL_SIR_IOPN1B_20181112T023903_20181112T024453_C001	rd. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo Loss of Echo	s any problems when set.		

# 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

CS OFFL SIR IOPN1B 20181112T161101 20181112T161221 C001

CS\_OFFL\_SIR\_IOPN1B\_20181112T205328\_20181112T205507\_C001

CS\_OFFL\_SIR\_IOPN1B\_20181112T205857\_20181112T205953\_C001

CS\_OFFL\_SIR\_IOPN1B\_20181112T223259\_20181112T223558\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T015157\_20181112T015353\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T020517\_20181112T020758\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T024453\_20181112T025234\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T042426\_20181112T043047\_C001

CS OFFL SIR IOPR1B 20181112T064854 20181112T065250 C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T075026\_20181112T075425\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T082632\_20181112T083332\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T103851\_20181112T104030\_C001

CS\_OFFL\_SIR\_IOPR1B\_20181112T160128\_20181112T160922\_C001

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: 0

Loss of Echo

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

#### 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: 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.

#### 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.

ean 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. 79

Number of products with errors:

Product Test Faile Description The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T002817 20181112T010208 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T012723\_20181112T015157\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T015509 20181112T020016 C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T020035\_20181112T020400\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T020758 20181112T021829 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T022404 20181112T023903 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T030456\_20181112T033105\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T033452\_20181112T033930\_C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T033932\_20181112T034306\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T034829\_20181112T042044\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T043323\_20181112T043554\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T050211 20181112T050316 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T050444\_20181112T050741\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T050852\_20181112T050904\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T051434 20181112T051955 C001 Ice Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T052648\_20181112T054804\_C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T055049\_20181112T060056\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T061206 20181112T061615 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T063208 20181112T063656 C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T063843\_20181112T064854\_C001 Ocean Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T065506 20181112T065854 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T070601\_20181112T071058\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T071107\_20181112T074006\_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T075537\_20181112T082632\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T084531\_20181112T090108\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T090111 20181112T090222 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T090702\_20181112T091403\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T093527\_20181112T095103\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T095722 20181112T100853 C001 Ocean Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T101747\_20181112T102209\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T102427\_20181112T103851\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T104030 20181112T105525 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T111720\_20181112T112430\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T112552\_20181112T113038\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T113345 20181112T114908 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T115240\_20181112T120118\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T120420\_20181112T122615\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T130311\_20181112T132754\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T133155 20181112T133343 C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T133442\_20181112T133916\_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T134401\_20181112T140942\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T144043\_20181112T145058\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181112T145636 20181112T150549 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T151359\_20181112T151952\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20181112T152313\_20181112T154852\_C001 Ocean Range Averaging Status records

		The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181112T155847_20181112T155956_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181112T161221_20181112T164548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T165305_20181112T165823_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T173552_20181112T173949_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T175115_20181112T180106_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T180352_20181112T182513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T183149_20181112T183307_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T183314_20181112T183721_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T184248_20181112T185227_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T185414_20181112T190031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T190205_20181112T190648_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T193000_20181112T200359_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T200650_20181112T201205_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T201225_20181112T201513_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T202305_20181112T205328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T205507_20181112T205825_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T210924_20181112T212622_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T212827_20181112T214342_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T214559_20181112T215102_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T220028_20181112T221042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T221700_20181112T223259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T230404_20181112T230647_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T230826_20181112T232208_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T232513_20181112T233013_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T233038_20181112T233047_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T233055_20181112T233200_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T233759_20181113T001119_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181112T020029_20181112T020035_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181112T051955_20181112T052304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181112T113041_20181112T113345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181112T050316_20181112T050444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181112T064854_20181112T065250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181112T114909_20181112T115056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181112T164549_20181112T164952_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. 76

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181112T002817_20181112T010208_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_20181112T012723_20181112T015157_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_20181112T015509_20181112T020016_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T020758_20181112T021829_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_20181112T022404_20181112T023903_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_20181112T030456_20181112T033105_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_20181112T033452_20181112T033930_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T033932_20181112T034306_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T034829_20181112T042044_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\_20181112T043323\_20181112T043554\_C001 CS OFFL SIR IOPM 2 20181112T050211 20181112T050316 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T050444\_20181112T050741\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T050852\_20181112T050904\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T051434\_20181112T051955\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T052648\_20181112T054804\_C001 CS OFFL SIR IOPM 2 20181112T055049 20181112T060056 C001 CS OFFL SIR IOPM 2 20181112T061206 20181112T061615 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T063208\_20181112T063656\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T063843\_20181112T064854\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T065506\_20181112T065854\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T070601\_20181112T071058\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T071107\_20181112T074006\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T075537\_20181112T082632\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T084531\_20181112T090108\_C001 CS OFFL SIR IOPM 2 20181112T090111 20181112T090222 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T090702\_20181112T091403\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T093527\_20181112T095103\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T095722\_20181112T100853\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T101747\_20181112T102209\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T102427\_20181112T103851\_C001 CS OFFL SIR IOPM 2 20181112T104030 20181112T105525 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T111720\_20181112T112430\_C001 CS OFFL SIR IOPM 2 20181112T112552 20181112T113038 C001 CS OFFL SIR IOPM 2 20181112T113345 20181112T114908 C001 CS OFFL SIR IOPM 2 20181112T115240 20181112T120118 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T120420\_20181112T122615\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T130311\_20181112T132754\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T133155\_20181112T133343\_C001 CS OFFL SIR IOPM 2 20181112T133442 20181112T133916 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T134401\_20181112T140942\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T144043\_20181112T145058\_C001 CS OFFL SIR IOPM 2 20181112T145636 20181112T150549 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T151359\_20181112T151952\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T152313\_20181112T154852\_C001 CS OFFL SIR IOPM 2 20181112T155847 20181112T155956 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T161221\_20181112T164548\_C001 CS OFFL SIR IOPM 2 20181112T165305 20181112T165823 C001 CS OFFL SIR IOPM 2 20181112T173552 20181112T173949 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T175115\_20181112T180106\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T180352\_20181112T182513\_C001 CS OFFL SIR IOPM 2 20181112T183149 20181112T183307 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T183314\_20181112T183721\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T184248\_20181112T185227\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T185414\_20181112T190031\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T190205\_20181112T190648\_C001 CS OFFL SIR IOPM 2 20181112T193000 20181112T200359 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T200650\_20181112T201205\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T202305\_20181112T205328\_C001 CS OFFL SIR IOPM 2 20181112T205507 20181112T205825 C001 CS\_OFFL\_SIR\_IOPM\_2\_20181112T210924\_20181112T212622\_C001 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 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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more records.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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 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.

CS_OFFL_SIR_IOPM_2_20181112T212827_20181112T214342_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_20181112T214559_20181112T215102_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T220028_20181112T221042_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_20181112T221700_20181112T223259_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_20181112T230404_20181112T230647_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_20181112T230826_20181112T232208_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_20181112T232513_20181112T233013_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T233038_20181112T233047_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181112T233759_20181113T001119_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_IOPN_2_20181112T020029_20181112T020035_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181112T051955_20181112T052304_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_IOPN_2_20181112T113041_20181112T113345_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_IOPR_2_20181112T050316_20181112T050444_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_IOPR_2_20181112T064854_20181112T065250_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_IOPR_2_20181112T114909_20181112T115056_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_IOPR_2_20181112T164549_20181112T164952_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
5.8.1.2 Ocean Betracking Quality Check		

#### 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. 64

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).

0

0

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

#### 6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181112T002122_20181112T011057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T011057_20181112T020036_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_220181112T020036_20181112T025011_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_220181112T025011_20181112T033950_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_220181112T033950_20181112T042924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T042924_20181112T051903_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_220181112T051903_20181112T060838_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_220181112T060838_20181112T065817_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_220181112T065817_20181112T074751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220181112T074751_20181112T083730_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T083730_20181112T092705_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_220181112T092705_20181112T101644_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_220181112T101644_20181112T110618_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_220181112T110618_20181112T115557_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T115557_20181112T124532_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_220181112T124532_20181112T133511_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T133511_20181112T142445_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_220181112T142445_20181112T151424_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_220181112T151424_20181112T160359_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_220181112T160359_20181112T165338_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T165338_20181112T174312_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_220181112T174312_20181112T183251_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181112T183251_20181112T192226_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_220181112T192226_20181112T201205_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_220181112T201205_20181112T210139_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_220181112T210139_20181112T215118_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_220181112T215118_20181112T224053_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_220181112T224053_20181112T233032_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_2_20181112T233032_20181113T002007_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.

# 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181112T002122_20181112T011057_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_220181112T011057_20181112T020036_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_220181112T020036_20181112T025011_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_220181112T025011_20181112T033950_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_220181112T033950_20181112T042924_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_220181112T042924_20181112T051903_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_220181112T051903_20181112T060838_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_220181112T060838_20181112T065817_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_220181112T065817_20181112T074751_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_220181112T074751_20181112T083730_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_220181112T083730_20181112T092705_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_220181112T092705_20181112T101644_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_220181112T101644_20181112T110618_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_220181112T110618_20181112T115557_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_220181112T115557_20181112T124532_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_220181112T124532_20181112T133511_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_220181112T133511_20181112T142445_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_220181112T142445_20181112T151424_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_220181112T151424_20181112T160359_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_220181112T160359_20181112T165338_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_220181112T165338_20181112T174312_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_2_20181112T174312_20181112T183251_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_220181112T183251_20181112T192226_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_220181112T192226_20181112T201205_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_220181112T201205_20181112T210139_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_220181112T210139_20181112T215118_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_220181112T215118_20181112T224053_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_220181112T224053_20181112T233032_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_220181112T233032_20181113T002007_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.

# 6.8 P2P Ocean Retracking Quality Check

Number of products with errors:

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.

28

CS_OFFL_SIR_IOP_2_20181112T01057_2019112701057_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T01057_20191112703058_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T03006_20181112T0329501_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T03290_20181112T042924_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T04293_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T04293_011112T068387_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T040838_0141112T068370_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T064370_2018112700475_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T01642_011127016370_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T01642_011127016370_C001	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20181112T020038_20181112T025011_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T042824_20181112T069838_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T069838_20181112T069838_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T069837_20181112T045971_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T0692705_20181112T0692705_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T0692705_20181112T106944_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T106144_20181112T106140_0001         Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20181112T06432_20181112T16442_001         Ocean	CS_OFFL_SIR_IOP_220181112T002122_20181112T011057_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS, OFFL_SIR_IOP_2_20181112702501_201811127033950_2018Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS, OFFL_SIR_IOP_2_201811127042924_201811127051903_201811127051903_2019Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201811127051903_201811127065838_20101Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201811127065938_201811127065817_20191Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201811127065937_201811127074751_201811127074751_201811127074751_201811127074751_201811127074751_201811127074751_201811127092705_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_2018111271074751_201811127092705_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201811127101614_20181112710615_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201811127110518_201811127115557_2018_201811127115557_201811127115557_201811127115557_201811127115557_20	CS_OFFL_SIR_IOP_220181112T011057_20181112T020036_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181112T033850_20181112T05293_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag           CS_OFFL_SIR_IOP_2_20181112T05293_20181112T05293_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag </td <td>CS_OFFL_SIR_IOP_220181112T020036_20181112T025011_C001</td> <td>Ocean Retracking Quality Flag</td> <td>The Ocean Retracking Quality Flag has been set for one or more records.</td>	CS_OFFL_SIR_IOP_220181112T020036_20181112T025011_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_0181112T051903_02011112T060838_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_0181112T060838_01112T060838_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_0181112T060838_011112T068317_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_0181112T068317_00181112T068317_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_0181112T063730_0011112T063730_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_0181112T063730_0181112T063730_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T01644_00181112T10644_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T10644_0181112T110618_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T11557_0181112T10557_0011112T16557_0011112T16557_0011112T16557_0011112T16557_0011112T16557_00111115112142452_0181112T115557_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16552_0181112T16552_0181112T16552_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16552_018	CS_OFFL_SIR_IOP_220181112T025011_20181112T033950_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181112T060838_20181112T060838_2011       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T060838_20181112T066817_2001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T065817_20181112T074751_20181112T074751_20181112T074751_20181112T074751_20181112T074751_20181112T083730_20101       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T074751_20181112T092705_20101       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T0642_0181112T092705_20181112T101644_20181112T101644_20181112T101644_20181112T110657_2001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T11644_20181112T116557_2001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116557_20181112T116555_20181112T116555_20181       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20181112T116555_20181112T116555_2011       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag	CS_OFFL_SIR_IOP_220181112T033950_20181112T042924_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181112T060838_20181112T065817_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T065817_20181112T08570_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T08730_20181112T092705_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T08730_20181112T092705_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T01644_20181112T101644_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T01644_20181112T110618_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T10618_20181112T115557_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T112557_20181112T112557_20181112T112557_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T112557_20181112T112552_20181112T135511_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16328_20181112T16329_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16338_20181112T163351_C001Ocean Retracking Quality FlagThe Oc	CS_OFFL_SIR_IOP_220181112T042924_20181112T051903_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181112T065817_20181112T074751_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T074751_20181112T083730_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T074751_20181112T083730_20181112T092705_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T01644_20181112T101644_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T101644_20181112T110618_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T110618_20181112T110618_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T115557_20181112T115557_20181112T114532_20101Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T142445_20181112T142445_2001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16338_20181112T16339_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16338_20181112T16335_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16335_120181112T16335_0001Ocean Retracking Quality FlagTh	CS_OFFL_SIR_IOP_220181112T051903_20181112T060838_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181112T074751_20181112T083730_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T083730_20181112T092705_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T092705_20181112T101644_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T101644_20181112T110618_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T110618_20181112T11557_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T11557_20181112T124532_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T124532_0181112T142455_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T14245_20181112T142445_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16338_0181112T16359_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T16338_0181112T163251_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20181112T163251_0011112T163251_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been se	CS_OFFL_SIR_IOP_220181112T060838_20181112T065817_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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	CS_OFFL_SIR_IOP_220181112T215118_20181112T224053_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220181112T224053_20181112T233032_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181112T233032_20181113T002007_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.