



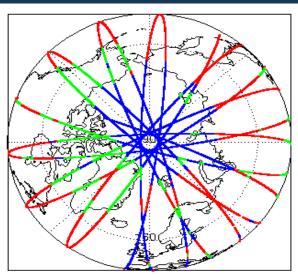
## 1. Overview

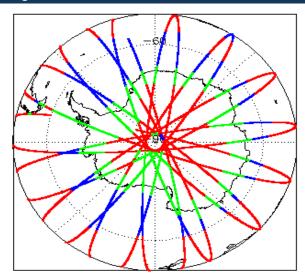
Report Production:	16-Aug-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

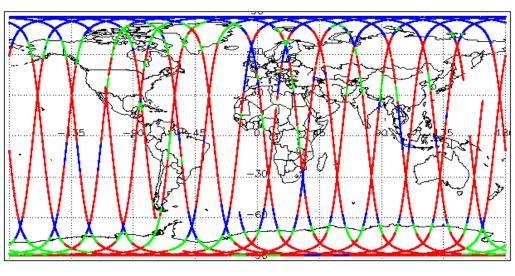
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instrument News		
13-Aug-2018	None	
14-Aug-2018	None	
15-Aug-2018	Nothing planned	

# 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

## 4. 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:

0

### 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Ω

#### 4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

26

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180814T012655_20180814T014138_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180814T023649_20180814T025231_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180814T030553_20180814T032638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180814T144208_20180814T145917_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180814T162150_20180814T162410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T025231_20180814T025532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T025644_20180814T025739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T025742_20180814T025858_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T125757_20180814T130109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T130112_20180814T130217_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T143652_20180814T143804_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T143941_20180814T144027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T144030_20180814T144031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T144051_20180814T144208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T151641_20180814T152234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T161613_20180814T161835_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T161858_20180814T162040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T174953_20180814T175010_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T210559_20180814T210650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180814T210832_20180814T210931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180814T085224_20180814T085654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180814T095026_20180814T095345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180814T133533_20180814T134139_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180814T220750_20180814T221202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180814T224119_20180814T224601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180814T234640_20180814T235035_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:

٥

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

## 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

0

### 5.6 L2 Range Measurement Check

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

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

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

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

Number of products with errors:

83

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180813T234838_20180814T002340_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180814T002651_20180814T003156_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180814T003216_20180814T003520_C001	Ice Range Averaging Status	records.  The loe Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T004255_20180814T011403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180814T011523_20180814T011717_C001	Ice Range Averaging Status	records. The lce Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T012655_20180814T014138_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180814T014245_20180814T020313_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T020547_20180814T021054_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T022035_20180814T023030_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T023649_20180814T025231_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T030553_20180814T032638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T032818_20180814T034151_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T034505_20180814T035004_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T035029_20180814T035039_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T035841_20180814T040130_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T040148_20180814T042026_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T042233_20180814T043237_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T045916_20180814T052008_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T052544_20180814T052921_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T052943_20180814T053250_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T053641_20180814T060422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T063533_20180814T070000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T070326_20180814T070835_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T071605_20180814T072638_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T073216_20180814T074916_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T080139_20180814T080847_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T083515_20180814T083923_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T084325_20180814T084908_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T085654_20180814T092851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T093155_20180814T093228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T094117_20180814T094253_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T095648_20180814T101714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T102251_20180814T102801_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T103504_20180814T111031_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T111953_20180814T112220_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T113235_20180814T113715_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T113754_20180814T115630_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T121444_20180814T123120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T124240_20180814T125038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T130218_20180814T132136_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T132217_20180814T133532_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T134414_20180814T134611_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T134741_20180814T135114_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T135340_20180814T140833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T141035_20180814T141956_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_JORN_2_20180814T19504_20180814T19506_COID  CS_OFFL_SIR_JORN_2_20180814T19504_20180814T19506_COID  CS_OFFL_SIR_JORN_2_20180814T19504_20180814T19506_COID  CS_OFFL_SIR_JORN_2_20180814T19504_20180814T19506_COID  CS_OFFL_SIR_JORN_2_20180814T19504_20180814T195040_COID  CS_OFFL_SIR_JORN_2_20180814T195040_COID  CS_OFFL_SIR_JORN_2_20180814T20112_20180814T2010000_COID  CS_OFFL_SIR_JORN_2_20180814T2010	CS_OFFL_SIR_IOPM_2_20180814T144208_20180814T145917_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
Co.PHS. (PML_20188914T18331_201884118470_0001 Co. GFTL_SR_0PML_20188914T18331_201884118470_0001 Co. GFTL_SR_0PML_20188914T18331_201884118400_0001 Co. GFTL_SR_0PML_20188914T18233_201884118034_0001 Co. GFTL_SR_0PML_20188914T18233_201884118034_0001 Co. GFTL_SR_0PML_20188914T18233_201884118034_0001 Co. GFTL_SR_0PML_20188914T18033_201884117932_0001 Co. GFTL_SR_0PML_20188914T18033_201884117932_0001 Co. GFTL_SR_0PML_20188914T18033_201884117932_0001 Co. GFTL_SR_0PML_20188914T18033_201884117932_0001 Co. GFTL_SR_0PML_20188914T18033_201884117932_0001 Co. GFTL_SR_0PML_20188914T18033_201884117932_0001 Co. GFTL_SR_0PML_20188914T18033_20188914T19330_0001 Co. GFTL_SR_0PML_20188914T18033_20188914T19330_0001 Co. GFTL_SR_0PML_20188914T18233_20188914T19330_0001 Co. GFTL_SR_0PML_20188914T18233_20188914T19334_20188914T19334_20188914T19334_20188914T193343_20188914T19334_20188914T19334_20188914T193343_20188914T19334_20188914T193343_20188914T193343_20188914T193441_201891841733433_20188914T193441_20189141733434_201891841733434_2018918417343449_20189141733434_201	CS_OFFL_SIR_IOPM_2_20180814T151534_20180814T151641_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
So, OFFL, SHL, OPML 2, 201888141192312, 2018814119240, CO11  CS, OFFL, SHL, OPML 2, 201888141192332, 20188141192300, CO11  CS, OFFL, SHL, OPML 2, 201888141192332, 20188141192300, CO11  CS, OFFL, SHL, OPML 2, 20188814119200, 20188141192300, CO11  CS, OFFL, SHL, OPML 2, 20188814119200, 20188141192000, CO11  CS, OFFL, SHL, OPML 2, 20188814119200, 20188141192000, CO11  CS, OFFL, SHL, OPML 2, 20188814119200, 20188141192000, CO11  CS, OFFL, SHL, OPML 2, 201888141192000, CO11  CS, OFFL, SHL, OPML 2, 201888141192300, CO11  CS, OFFL, SHL, OPML 2, 201888141192301, CO11  CS, OFFL, SHL, OPML 2, 201888141192201, 2018814198910, CO11  CS, OFFL, SHL, OPML 2, 201888141192201, 2018814198910, CO11  CS, OFFL, SHL, OPML 2, 201888141202210, 20188141198301, CO11  CS, OFFL, SHL, OPML 2, 201888141202210, 20188141203330, CO11  CS, OFFL, SHL, OPML 2, 201888141203330, 20188141203330, CO11  CS, OFFL, SHL, OPML 2, 201888141203201, 20188141203330, CO11  CS, OFFL, SHL, OPML 2, 201888141203031, 20188141203330, CO11  CS, OFFL, SHL	CS_OFFL_SIR_IOPM_2_20180814T152234_20180814T152536_C001	Ice Range Averaging Status	
Coppl., Sin, Cyfful, 2, 2018001417102522, 2018001417103244, COD1  Coppl., Sin, Cyfful, 2, 2018001417102522, 2018001417103244, COD1  Coppl., Sin, Cyfful, 2, 201800141710252, 201800141710324, COD1  Coppl., Sin, Cyfful, 2, 201800141710325, 201800141710324, COD1  Coppl., Sin, Cyfful, 2, 201800141710325, 201800141710340, COD1  Coppl., Sin, Cyfful, 2, 201800141710341, 201800141710340, COD1  Coppl., Sin, Cyfful, 2, 201800141710322, 201800141710340, COD1  Coppl., Sin, Cyfful, 2, 201800141710322, 201800141710333, COD1  Coppl., Sin, Cyfful, 2, 201800141710322, 201800141710333, COD1  Coppl., Sin, Cyfful, 2, 201800141720322, 201800141720332, COD1  Coppl., Sin, Cyfful, 2, 201800141720332, 201800141720333, COD1  Coppl., Sin, Cyfful, 2, 201800141720332, 201800141720333, COD1  Coppl., Sin, Cyfful, 2, 201800141720332, 201800141720333, COD1  Coppl., Sin, Cyfful, 2, 201800141720334, COD1  Coppl., Sin, Cyfful	CS_OFFL_SIR_IOPM_2_20180814T152543_20180814T153015_C001	Ice Range Averaging Status	
Ocean Range Averaging Status  Fig. Optil., Str. (JOHAL 2, 20180814116357, 201808141163706, 2001)  Ocean Range Averaging Status  Fig. Optil., Str. (JOHAL 2, 201808141170302, 201808141170302, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. Optil., Str. (JOHAL 2, 201808141170302, 201808141170302, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. Optil., Str. (JOHAL 2, 201808141170302, 201808141170302, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. Optil., Str. (JOHAL 2, 201808141180307, 201808141181959, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. Optil., Str. (JOHAL 2, 201808141180307, 201808141180900, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 201808141180307, 201808141180910, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 20180814118031, 201808141180910, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 20180814118031, 201808141180910, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 20180814119031, 201808141190910, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 20180814119031, 201808141190910, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 20180814119031, 201808141190910, 2001)  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Fig. (JOHAL 2, 20180814119031), 201808141100310, 201808141100310,	CS_OFFL_SIR_IOPM_2_20180814T153311_20180814T154703_C001	Ocean Range Averaging Status	
Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147170352_201808147170352_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147170352_D01808147170352_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147170352_D0180814770352_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147170352_D0180814770332_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180352_D0180814773732_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180352_D018081478118050_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180352_D01808147818166_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180352_D01808147818166_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180352_D018081471807180_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180372_D01808147190186_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180372_D01808147190186_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147180372_D01808147190186_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147190372_D01808147190186_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.201808147103352_D0180814719038_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.20180814720312_D0180814720335_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.20180814720312_D0180814720335_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.20180814720312_D0180814720355_C001  Coesh Range Averaging Status  Fig. CyptSitCypt2.20180814720412_D0180814720355_C001  Coesh Range Averaging Status  Fig. Cypt.	CS_OFFL_SIR_IOPM_2_20180814T162150_20180814T162409_C001	Ocean Range Averaging Status	
Copper Ser John 2, 20188814170030 201880141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (20188141770034 (2018814170037 (20188141770034 (2018814170037 (20188141770034 (2018814170037 (201881417003	CS_OFFL_SIR_IOPM_2_20180814T162533_20180814T163244_C001	Ocean Range Averaging Status	
SC_OFFL_SR_JOPM_2_201808141710392_201808141773912_2001  SC_OFFL_SR_JOPM_2_201808141710392_201808141717312_2001  Ocean Range Averaging Status  CS_OFFL_SR_JOPM_2_201808141712392_2018081417191896_C001  CS_OFFL_SR_JOPM_2_201808141718292_2018081417191896_C001  CS_OFFL_SR_JOPM_2_201808141718292_2018081417191896_C001  CS_OFFL_SR_JOPM_2_201808141718292_2018081417191896_C001  CS_OFFL_SR_JOPM_2_201808141718292_201808141719180_C001  CS_OFFL_SR_JOPM_2_201808141718293_201808141719180_C001  CS_OFFL_SR_JOPM_2_201808141718293_201808141719180_C001  CS_OFFL_SR_JOPM_2_201808141718293_201808141719180_C001  CS_OFFL_SR_JOPM_2_201808141718293_201808141708180_C001  CS_OFFL_SR_JOPM_2_201808141718293_201808141708180_C001  CS_OFFL_SR_JOPM_2_201808141718293_201808147203133_C001  CS_OFFL_SR_JOPM_2_20180814172033_201808147203133_C001  CS_OFFL_SR_JOPM_2_20180814172033_201808147203133_C001  CS_OFFL_SR_JOPM_2_20180814172032_20180814720333_C001  CS_OFFL_SR_JOPM_2_2018081472033_20180814720333_C001  CS_OFFL_SR_JOPM_2_2018081472033_2018081472032_C001  CS_OFFL_SR_JOPM_2_2018081472033_20180814720333_C001  CS_OFFL_SR_JOPM_2_2018081472032_C0180814720333_C001  CS_OFFL_SR_JOPM_2_201808147213_C018081472033_C001  CS_OFFL_SR_JOPM_2_2018081472032_C0180814720333_C001  CS_OFFL_SR_JOPM_2_2018081472032_C0180814720333_C001  CS_OFFL_SR_JOPM_2_2018081472032_C018081472033_C001  CS_OFFL_SR_JOPM_2_2018081472032_C0180814722376_C001  CS_OFFL_SR_JOPM_2_2018081472203_C0180814722376_C001  CS_OFFL_SR_JOPM_2_2018081472203_C0180814723235_C001  CS_OFFL_SR_JOPM_2_20180814720305_2018081472335_C001  CS_OFFL_SR_JOPM_2_20180814720305_2018081472335_C001  CS_OFFL_SR_JOPM_2_20180814720305_2018081472343_C001  CS_OFFL_SR_JOPM_2_20180814720305_2018081472035_C001  CS_OFFL_SR_JOPM_2_20180814720305_2018081472035_C001  CS_OFFL_SR_JOPM_2_20180814722005_2018081472035_C001  CS_OFFL_SR_JOPM_2_20180814722005_2018081472035_C001  CS_OFFL_SR_JOPM_2_20180814720405_2018081472045_C001  CS_OFFL_SR_JOPM_2_20180814720405_2018081472045_C001  CS_OFFL_SR_JOPM_2_20180814720405_2018081472047_C001  CS_OFFL_SR_	CS_OFFL_SIR_IOPM_2_20180814T163357_20180814T165705_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_JOPM_2_2018081471292_01108814712372_C001  Ocean Range Averaging Status  Fine Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201808147180837_201808147183913_C001  Ocean Range Averaging Status  Fine Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging	CS_OFFL_SIR_IOPM_2_20180814T170048_20180814T170304_C001	Ice Range Averaging Status	
CS_OFFL_SIR_JOPM_2_20180814T182531_20180814T183532_CO10  Ocean Range Averaging Status  The Ocean Range Avera	CS_OFFL_SIR_IOPM_2_20180814T170307_20180814T170912_C001	Ice Range Averaging Status	
CS_OFF_SIR_IOPM_2_20180814718231_20180814718051_C001  CS_OFF_SIR_IOPM_2_20180814718231_20180814718051_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719030_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719030_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719030_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719091_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719910_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719910_C001  CS_OFF_SIR_IOPM_2_201808147182317_20180814719910_C001  CS_OFF_SIR_IOPM_2_20180814720331_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720331_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720732_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720032_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720032_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720032_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720032_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720032_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814720032_C001  CS_OFF_SIR_IOPM_2_20180814720312_20180814723032_C001  CS_OFF_SIR_IOPM_2_20180814720303_C008147203325_C001  CS_OFF_SIR_IOPM_2_20180814723603_C001808147233350_C001  CS_OFF_SIR_IOPM_2_20180814723603_C001808147233350_C001  CS_OFF_SIR_IOPM_2_20180814723603_C001808147233350_C001  CS_OFF_SIR_IOPM_2_20180814723603_C001808147033350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C001808147033350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C001808147033350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C00180814703350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C00180814703350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C00180814703350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C0018041703350_C001  CS_OFF_SIR_IOPM_2_20180814703350_C0018041703350_C001  CS_OFF_SIR_IOPM_2_201808147	CS_OFFL_SIR_IOPM_2_20180814T171259_20180814T173732_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808141792312_201808141790310_COLORS INTERITY AND COLORS INTERITY	CS_OFFL_SIR_IOPM_2_20180814T180837_20180814T181956_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201808147192317_201808147193903_0001  CS_OFFL_SIR_IOPM_2_201808147192317_201808147193910_0001  CS_OFFL_SIR_IOPM_2_201808147192317_201808147201343_C001  CS_OFFL_SIR_IOPM_2_20180814720331_201808147203143_C001  CS_OFFL_SIR_IOPM_2_201808147203212_201808147203143_C001  CS_OFFL_SIR_IOPM_2_201808147203212_201808147203143_C001  CS_OFFL_SIR_IOPM_2_20180814720312_201808147203143_C001  CS_OFFL_SIR_IOPM_2_20180814720312_201808147203153_C001  CS_OFFL_SIR_IOPM_2_20180814720312_20180814720353_C001  CS_OFFL_SIR_IOPM_2_20180814720312_20180814720353_C001  CS_OFFL_SIR_IOPM_2_201808147220114_20180814720353_C001  CS_OFFL_SIR_IOPM_2_201808147220114_20180814722052_C001  CS_OFFL_SIR_IOPM_2_201808147220114_20180814722052_C001  CS_OFFL_SIR_IOPM_2_201808147220114_20180814722052_C001  CS_OFFL_SIR_IOPM_2_201808147220114_20180814722052_C001  CS_OFFL_SIR_IOPM_2_201808147220114_20180814722056_C001  CS_OFFL_SIR_IOPM_2_201808147220114_201808147222756_C001  CS_OFFL_SIR_IOPM_2_20180814722400_201808147224742_C001  CS_OFFL_SIR_IOPM_2_201808147223050_201808147234753_C001  CS_OFFL_SIR_IOPM_2_201808147223050_201808147234753_C001  CS_OFFL_SIR_IOPM_2_201808147223050_201808147234753_C001  CS_OFFL_SIR_IOPM_2_20180814723605_201808147234753_C001  CS_OFFL_SIR_IOPM_2_20180814723605_201808147234753_C001  CS_OFFL_SIR_IOPM_2_20180814723605_201808147234753_C001  CS_OFFL_SIR_IOPM_2_20180814723605_201808147234753_C001  CS_OFFL_SIR_IOPM_2_20180814723605_20180814702559_C001  CS_OFFL_SIR_IOPM_2_20180814702506_20180814702559_C001  CS_OFFL_SIR_IOPM_2_20180814702506_20180814700550_C001  CS_OFFL_SIR_IOPM_2_20180814702506_20180814700550_C001  CS_OFFL_SIR_IOPM_2_20180814702506_20180814700550_C001  CS_OFFL_SIR_IOPM_2_20180814702506_201808147005050_C001  CS_OFFL_SIR_IOPM_2_20180814700506_20180814700506_C001  CS_OFFL_SIR_IOPM_2_20180814700506_20180814700506_C001  CS_OFFL_SIR_IOPM_2_20180814700506_20180814700506_C001  CS_OFFL_SIR_IOPM_2_20180814700506_201808147100506_C001  CS_OFFL_SIR_IOPM_2_20180814700506_201808147100506_C001  CS_OFFL_SIR_IOPM_2_201808147105	CS_OFFL_SIR_IOPM_2_20180814T182531_20180814T183613_C001	Ocean Range Averaging Status	
CS_OFF_SIR_IOPM_2_20180814T192317_20180814T193003_C001  Ocean Range Averaging Status	CS_OFFL_SIR_IOPM_2_20180814T184259_20180814T184714_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180814T19318_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T20331_20180814T203331_20180814T203331_20180814T203331_20180814T203331_20180814T203331_20180814T203331_20180814T203331_20180814T203331_20180814T203331_20180814T203333_2001  CS_OFFL_SIR_IOPM_2_20180814T20852_0180814T203533_0001  CS_OFFL_SIR_IOPM_2_20180814T20852_0180814T203533_0001  CS_OFFL_SIR_IOPM_2_20180814T201805_02180814T203533_0001  CS_OFFL_SIR_IOPM_2_20180814T201805_02180814T203533_0001  CS_OFFL_SIR_IOPM_2_20180814T201805_02180814T203533_0001  CS_OFFL_SIR_IOPM_2_20180814T201805_02180814T20332_0001  CS_OFFL_SIR_IOPM_2_20180814T2014_0180814T20625_0001  CS_OFFL_SIR_IOPM_2_20180814T2014_0180814T20625_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T224724_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T224724_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T233256_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T233256_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T234734_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T234113_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T204533_0001  CS_OFFL_SIR_IOPM_2_20180814T20401_20180814T204533_0001  CS_OFFL_SIR_IOPM_2_20180814T204501_20180814T204533_0001  CS_OFFL_SIR_IOPM_2_20180814T002501_20180814T002501_0001  CS_OFFL_SIR_IOPM_2_20180814T002501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_20180814T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T004501_0018014T004501_0001  CS_OFFL_SIR_IOPM_2_20180814T044504_0001  CS_OFFL_SIR_IOPM_2_20180814T045644_00180814T0454501	CS_OFFL_SIR_IOPM_2_20180814T185213_20180814T191816_C001	Ocean Range Averaging Status	
CS_OFF_SIR_IOPM_2_20180814720331_20180814720353_001  Cs_OFF_SIR_IOPM_2_20180814720331_20180814720353_001  Cs_OFF_SIR_IOPM_2_20180814720312_20180814720353_001  Cs_OFF_SIR_IOPM_2_20180814720312_20180814720353_001  Cs_OFF_SIR_IOPM_2_201808147210850_201808147210852_001  Cs_OFF_SIR_IOPM_2_201808147210850_201808147210852_001  Cs_OFF_SIR_IOPM_2_2018081472113_01808147210850_001808147215040_001  Cs_OFF_SIR_IOPM_2_2018081472113_01808147215404_001  Cs_OFF_SIR_IOPM_2_201808147220114_20180814722055_001  Cs_OFF_SIR_IOPM_2_201808147221014_20180814722055_001  Cs_OFF_SIR_IOPM_2_201808147222010_00180814722055_001  Cs_OFF_SIR_IOPM_2_201808147224601_00180814724724_001  Cs_OFF_SIR_IOPM_2_20180814722305_00180814723055_001  Cs_OFF_SIR_IOPM_2_201808147233905_20180814723355_001  Cs_OFF_SIR_IOPM_2_201808147233905_20180814723355_001  Cs_OFF_SIR_IOPM_2_201808147233905_20180814723410_001  Cs_OFF_SIR_IOPM_2_201808147233905_00180814723410_001  Cs_OFF_SIR_IOPM_2_201808147233905_001808147234100_001808147005501_001808147005501_00180417205500_001808147005501_001804171005501_00180417005501_	CS_OFFL_SIR_IOPM_2_20180814T192317_20180814T193003_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_JOPM_2_20180814T203122_20180814T203275_C001  CS_OFFL_SIR_JOPM_2_20180814T203122_20180814T203275_C001  CS_OFFL_SIR_JOPM_2_20180814T203122_20180814T203533_C001  CS_OFFL_SIR_JOPM_2_20180814T2120113_20180814T210853_C001  CS_OFFL_SIR_JOPM_2_20180814T2121113_20180814T210853_C001  CS_OFFL_SIR_JOPM_2_20180814T220114_20180814T20505_C001  CS_OFFL_SIR_JOPM_2_20180814T2212012_20180814T222010  CS_OFFL_SIR_JOPM_2_20180814T221200_20180814T22275_C001  CS_OFFL_SIR_JOPM_2_20180814T222575_C001  CS_OFFL_SIR_JOPM_2_20180814T22355_C001  CS_OFFL_SIR_JOPM_2_20180814T22355_C001  CS_OFFL_SIR_JOPM_2_20180814T22355_C001  CS_OFFL_SIR_JOPM_2_20180814T23305_C0180814T23413_C001  CS_OFFL_SIR_JOPM_2_20180814T23305_C0180814T2345_C001  CS_OFFL_SIR_JOPM_2_20180814T23305_C0180814T2345_C001  CS_OFFL_SIR_JOPM_2_20180814T23305_C0180814T2345_C001  CS_OFFL_SIR_JOPM_2_20180814T025012_0180814T002551_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_20180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_C0180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_C0180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_C0180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_C0180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_C0180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T002501_C0180814T002501_C0180814T002505_C001  CS_OFFL_SIR_JOPM_2_20180814T13413_C01  CS_OFFL_SIR_JOPM_2_20180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002501_C0180814T1002	CS_OFFL_SIR_IOPM_2_20180814T194318_20180814T195910_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180814T223122_20180814T203122_20180814T203322_C001  CS_OFFL_SIR_IOPM_2_20180814T211213_20180814T20552_C001  CS_OFFL_SIR_IOPM_2_20180814T221122_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T221202_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T22202_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T22202_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T2225752_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T224601_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T224601_20180814T222756_C001  CS_OFFL_SIR_IOPM_2_20180814T2245752_20180814T223558_C001  CS_OFFL_SIR_IOPM_2_20180814T225752_20180814T233258_C001  CS_OFFL_SIR_IOPM_2_20180814T233005_20180814T2333258_C001  CS_OFFL_SIR_IOPM_2_20180814T234120_20180814T233305_20180814T234133_C001  CS_OFFL_SIR_IOPM_2_20180814T234120_20180814T233353_C001  CS_OFFL_SIR_IOPM_2_20180814T234120_20180814T234533_C001  CS_OFFL_SIR_IOPM_2_20180814T025573_C001  CS_OFFL_SIR_IOPM_2_20180814T02564_20180814T0255739_C001  CS_OFFL_SIR_IOPM_2_20180814T035642_20180814T104046_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T1144046_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T1144046_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T1032502_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T1032502_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134343_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134339_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134339_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T1033442_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T134139_20180814T103357_C001  CS_OFFL_SIR_IOPM_2_20180814T13	CS_OFFL_SIR_IOPM_2_20180814T200331_20180814T201343_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180814T225752_20180814T233258_C001  CS_OFFL_SIR_IOPM_2_20180814T233905_20180814T233258_C001  CS_OFFL_SIR_IOPM_2_20180814T233905_20180814T234113_C001  Loe Range Averaging Status  Loe Range Averaging Status  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T14046_C001  Loe Range Averaging Status  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Range Averaging Status Flag has been set for one or more records.  The Loe Ra	CS_OFFL_SIR_IOPM_2_20180814T221202_20180814T222756_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180814T23413_C001	CS_OFFL_SIR_IOPM_2_20180814T224601_20180814T224724_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T234120_20180814T234533_C001  CS_OFFL_SIR_IOPN_2_20180814T002501_20180814T002551_C001  CS_OFFL_SIR_IOPN_2_20180814T002501_20180814T0025739_C001  CS_OFFL_SIR_IOPN_2_20180814T0025644_20180814T0025739_C001  CS_OFFL_SIR_IOPN_2_20180814T0070151_20180814T0070326_C001  CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001  CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T104414_C001  CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T134414_C001  CS_OFFL_SIR_IOPN_2_20180814T13403_20180814T144046_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T144046_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T003200_20180814T1003202_C001  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T05603_20180814T005604_C001  CS_OFFL_S	CS_OFFL_SIR_IOPM_2_20180814T225752_20180814T233258_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T02501_20180814T002651_C001  Loe Range Averaging Status  CS_OFFL_SIR_IOPN_2_20180814T025644_20180814T025739_C001  CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001  Loe Range Averaging Status  CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001  Loe Range Averaging Status  Loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  The loe Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001  Loe Range Averaging Status  Loe Range	CS_OFFL_SIR_IOPM_2_20180814T233905_20180814T234113_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T025644_20180814T025739_C001  CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001  CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001  CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T134414_C001  CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T134414_C001  CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001  CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPR_2_20180814T03200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T03200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T035734_20180814T03202_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T05603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180814T056644_C001  CCS_OFFL_SIR_IOPR_2_20180814T056603_20180	CS_OFFL_SIR_IOPM_2_20180814T234120_20180814T234533_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T025644_20180814T070326_C001  CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001  Ice Range Averaging Status  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more recor	CS_OFFL_SIR_IOPN_2_20180814T002501_20180814T002651_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T134414_C001  Ice Range Averaging Status  CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20180814T025644_20180814T025739_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPN_2_20180814T070151_20180814T070326_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001  CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T134414_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001  CS_OFFL_SIR_IOPN_2_20180814T1003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001  CS_OFFL_SIR_IOPR_2_20180814T0045734_20180814T0045916_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180814T003200_20180814T170047_C001  Ice Range Averaging Status  I	CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_20180814T003202_20180814T003202_C001	CS_OFFL_SIR_IOPN_2_20180814T165856_20180814T170047_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20180814T045/34_20180814T045916_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20180814T205603_20180814T205644_C001	Ocean Range Averaging Status	

### 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.

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

Number of products with errors:

Product	Test Failed	Description
		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T002651_20180814T003156_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T003216_20180814T003520_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS OFFE SIR IOPM 2 201808141004255 201808141011403 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_20180814T011523_20180814T011717_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T012655\_20180814T014138\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T014245 20180814T020313 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T020547\_20180814T021054\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T022035\_20180814T023030\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T023649\_20180814T025231\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T030553\_20180814T032638\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T032818 20180814T034151 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180814T034505 20180814T035004 C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T035029\_20180814T035039\_C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS\_OFFL\_SIR\_IOPM\_2\_20180814T035841\_20180814T040130\_C001 Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS\_OFFL\_SIR\_IOPM\_2\_20180814T040148\_20180814T042026\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T042233\_20180814T043237\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T045916 20180814T052008 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T052544\_20180814T052921\_C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T052943\_20180814T053250\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T053641 20180814T060422 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T063533\_20180814T070000\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T070326\_20180814T070835\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T071605 20180814T072638 C001 **Backscatter Averaging Status** more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T073216\_20180814T074916\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T080139\_20180814T080847\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T083515 20180814T083923 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T084325\_20180814T084908\_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T085654 20180814T092851 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T093155 20180814T093228 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T094117 20180814T094253 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T095648\_20180814T101714\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T102251\_20180814T102801\_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T103504\_20180814T111031\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T111953 20180814T112220 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T113235\_20180814T113715\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T113754\_20180814T115630\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T121444 20180814T123120 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T124240\_20180814T125038\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T130218\_20180814T132136\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T132217 20180814T133532 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T134414\_20180814T134611\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180814T134741 20180814T135114 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T135340 20180814T140833 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T141035\_20180814T141956\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T144208\_20180814T145917\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T151534 20180814T151641 C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T152234\_20180814T152536\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T152543\_20180814T153015\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T153311\_20180814T154703\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T162150\_20180814T162409\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20180814T162533 20180814T163244 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T163357\_20180814T165705\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20180814T170048\_20180814T170304\_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20180814T170307 20180814T170912 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_IOPM\_2\_20180814T171259\_20180814T173732\_C001 Backscatter Averaging Status more records.

CS_OFFL_SIR_IOPM_2_20180814T180837_20180814T181956_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_20180814T182531_20180814T183613_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_20180814T184259_20180814T184714_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T185213_20180814T191816_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_20180814T192317_20180814T193003_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_20180814T194318_20180814T195910_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_20180814T200331_20180814T201343_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_20180814T202210_20180814T202752_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T203122_20180814T203533_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_20180814T210650_20180814T210832_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_20180814T212113_20180814T215404_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_20180814T220114_20180814T220625_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T221202_20180814T222756_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_20180814T224601_20180814T224724_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_20180814T225752_20180814T233258_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_20180814T233905_20180814T234113_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180814T234120_20180814T234533_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180814T002501_20180814T002651_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180814T025644_20180814T025739_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_20180814T070151_20180814T070326_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180814T134139_20180814T134414_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180814T144036_20180814T144046_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180814T163245_20180814T163357_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_20180814T165856_20180814T170047_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180814T003200_20180814T003202_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180814T045734_20180814T045916_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_20180814T205603_20180814T205644_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

#### 5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

### 6. 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).

67

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180813T234218_20180814T003157_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_220180814T003157_20180814T012131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T012131_20180814T021110_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_220180814T021110_20180814T030045_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_220180814T030045_20180814T035024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T035024_20180814T043958_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T043958_20180814T052938_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_220180814T052938_20180814T061912_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T061912_20180814T070851_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_220180814T070851_20180814T075826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T075826_20180814T084805_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_220180814T084805_20180814T093739_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_220180814T093739_20180814T102719_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T102719_20180814T111653_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T111653_20180814T120632_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T120632_20180814T125606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T125606_20180814T134546_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_220180814T134546_20180814T143520_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T143520_20180814T152459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T152459_20180814T161433_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_220180814T161433_20180814T170413_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_220180814T170413_20180814T175347_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_220180814T175347_20180814T184326_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_220180814T184326_20180814T193301_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_220180814T193301_20180814T202240_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T202240_20180814T211214_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_220180814T211214_20180814T220154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T220154_20180814T225128_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_220180814T225128_20180814T234107_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

## 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180813T234218_20180814T003157_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_220180814T003157_20180814T012131_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_220180814T012131_20180814T021110_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_220180814T021110_20180814T030045_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_220180814T030045_20180814T035024_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_220180814T035024_20180814T043958_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_220180814T043958_20180814T052938_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_220180814T052938_20180814T061912_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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CS_OFFL_SIR_IOP_2_20180814T061912_20180814T070851_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_20180814T070851_20180814T075826_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_2_20180814T075826_20180814T084805_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_20180814T084805_20180814T093739_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_2_20180814T093739_20180814T102719_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_20180814T102719_20180814T111653_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_2_20180814T111653_20180814T120632_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_2_20180814T120632_20180814T125606_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_2_20180814T125606_20180814T134546_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_2_20180814T134546_20180814T143520_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_20180814T143520_20180814T152459_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_2_20180814T152459_20180814T161433_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_20180814T161433_20180814T170413_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_20180814T170413_20180814T175347_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_20180814T175347_20180814T184326_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_20180814T184326_20180814T193301_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_20180814T193301_20180814T202240_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_2_20180814T202240_20180814T211214_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_20180814T211214_20180814T220154_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_2_20180814T220154_20180814T225128_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_20180814T225128_20180814T234107_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

## 6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180813T234218_20180814T003157_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T003157_20180814T012131_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T012131_20180814T021110_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T021110_20180814T030045_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T030045_20180814T035024_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T035024_20180814T043958_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T043958_20180814T052938_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T052938_20180814T061912_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T061912_20180814T070851_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T070851_20180814T075826_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T075826_20180814T084805_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T084805_20180814T093739_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T093739_20180814T102719_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T102719_20180814T111653_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T111653_20180814T120632_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180814T120632_20180814T125606_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180814T125606_20180814T134546_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T134546_20180814T143520_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T143520_20180814T152459_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T161433_20180814T170413_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T170413_20180814T175347_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T175347_20180814T184326_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T184326_20180814T193301_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T193301_20180814T202240_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T202240_20180814T211214_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T211214_20180814T220154_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T220154_20180814T225128_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180814T225128_20180814T234107_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.