



1. Overview

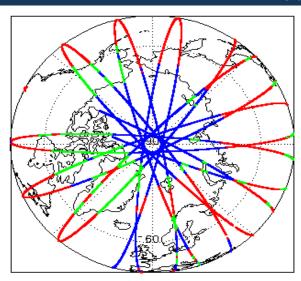
Report Production:	30-Aug-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

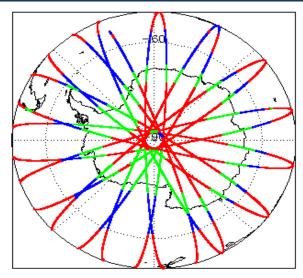
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

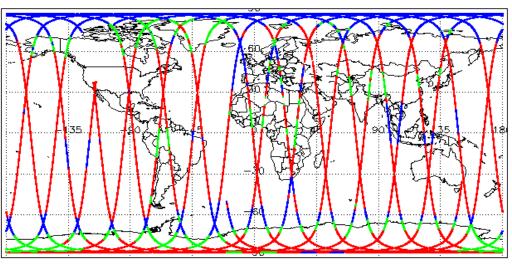
Mission / Instrument News		
27-Aug-2018	None	
28-Aug-2018	None	

29-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:

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180828T021946_20180828T023605_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180828T040635_20180828T041404_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20180828T172328_20180828T172905_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

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: 18

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180828T013119_20180828T014556_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180828T021946_20180828T023605_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180828T083917_20180828T091440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180828T121859_20180828T123326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180828T133639_20180828T135124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180828T135325_20180828T140248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T010145_20180828T010247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T023819_20180828T023905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T023939_20180828T024150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T092311_20180828T092357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T114959_20180828T115537_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T150256_20180828T150505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T155909_20180828T160501_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T173400_20180828T173426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T200138_20180828T200505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T204816_20180828T204920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180828T223053_20180828T223255_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180828T075603_20180828T075743_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:

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

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180828T021946_20180828T023605_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20180828T040635_20180828T041404_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180827T235904_20180828T000649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T000922_20180828T001450_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T001455_20180828T001502_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T001509_20180828T001740_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T002551_20180828T003820_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T003850_20180828T005609_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T011738_20180828T012915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T013119_20180828T014556_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T014849_20180828T015346_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T015425_20180828T015547_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T020316_20180828T021437_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T021946_20180828T023605_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T031042_20180828T032436_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T032811_20180828T033259_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T033339_20180828T033449_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T034051_20180828T040315_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T044104_20180828T050216_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T050226_20180828T050331_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T050841_20180828T051214_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T051236_20180828T051603_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T051926_20180828T053542_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T053601_20180828T054554_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T061935_20180828T064310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T064630_20180828T065128_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T065135_20180828T065503_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T065921_20180828T070939_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T071514_20180828T073304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T074428_20180828T075148_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T082139_20180828T082159_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T082629_20180828T083159_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T083917_20180828T091440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T092357_20180828T092618_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T094420_20180828T100033_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T100547_20180828T101055_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T101756_20180828T105323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T110339_20180828T110517_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T111548_20180828T112016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T112050_20180828T113830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T114804_20180828T114959_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T115744_20180828T121137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T121141_20180828T121417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T121859_20180828T123326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T124553_20180828T130331_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_LOPM_2_201600287140382_201600287140384_CO01 CS_OFFL_SIR_LOPM_2_201600287142030_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_201600287142030_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_201600287142030_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_201600287140300_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_201600287140300_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_201600287140300_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_201600287140300_201600287140300_CO01 CS_OFFL_SIR_LOPM_2_20160028716000_20160028716000_CO01 CS_OFFL_SIR_LOPM_2_20160028716000_20160028716000_CO01 CS_OFFL_SIR_LOPM_2_20160028716000_20160028716000_CO01 CS_OFFL_SIR_LOPM_2_20160028716000_20160028716000_CO01 CS_OFFL_SIR_LOPM_2_20160028716000_CO01 CS_OFFL_SI	CS_OFFL_SIR_IOPM_2_20180828T130516_20180828T131930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_0001 CS_OFFL_SIR_LOPM_2_01808281140048_00000 CS_OFFL_SIR_LOPM_2_01808281140048_00000 CS_OFFL_SIR_LOPM_2_01808281140048_00000 CS_OFFL_SIR_LOPM_2_01808281140048_00000 CS_OFFL_SIR_LOPM_2_01808281150050_0000 CS_OFFL_SIR_LOPM_2_01808281150050_0000 CS_OFFL_SIR_LOPM_2_01808281150050_00000 CS_OFFL_SIR_LOPM_2_01808281150050_000000 CS_OFFL_SIR_LOPM_2_01808281150050_0000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180828T133639_20180828T135124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_2018028714270_2018028714200_0001 CS_OFFL_SIR_IOPM_2_2018028714270_20180287145092_0001 CS_OFFL_SIR_IOPM_2_20180287145712_00180287145092_0001 CS_OFFL_SIR_IOPM_2_20180287145712_00180287145092_0001 CS_OFFL_SIR_IOPM_2_20180287145712_0018028715002_0001 CS_OFFL_SIR_IOPM_2_20180287145712_0018028715002_0001 CS_OFFL_SIR_IOPM_2_20180287154571_0018028715002_0001 CS_OFFL_SIR_IOPM_2_20180287154571_0018028715002_0001 CS_OFFL_SIR_IOPM_2_20180287154571_0018028715002_0001 CS_OFFL_SIR_IOPM_2_2018028715002_0018028715002_0001 CS_OFFL_SIR_IOPM_2_2018028715002_0018028715002_0001 CS_OFFL_SIR_IOPM_2_2018028715002_00180287150001 CS_OFFL_SIR_IOPM_2_20180287150002_0018028715000000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180828T135325_20180828T140248_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SR_IOPM_2_01808287144591_20180828714590_00000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180828T142102_20180828T142200_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SR_DOM_2_201608287145791_20160828715000_CO01 CS_OFFL_SR_DOM_2_201608287145791_20160828715000_CO01 CS_OFFL_SR_DOM_2_20160828715000_20160828715000_CO01 CS_OFFL_SR_DOM_2_20160828716021_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_CO01 CS_OFFL_SR_DOM_2_20160828716000_CO01 CS_OFFL_SR_DOM_2_201608287160000_CO01 CS_OFFL_SR_DOM_2_20160828716000_CO01 CS_OFFL_SR_DOM_2_201608287160000_CO01 CS_OFFL_SR_DOM_2_201608287160000_CO01 CS_OFFL_SR_DOM_2_201608287160000_CO01 CS_OFFL_SR_DOM_2_201608287160000_CO01 CS_OFFL_SR_DOM_2_201608287160000_CO01 CS_OFFL_SR_DOM_2_20160828716000000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180828T142503_20180828T144216_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_201808281160501_201808281160515_COOL CS_OFFL_SIR_IOPM_2_201808281160628_201808281160515_COOL CS_OFFL_SIR_IOPM_2_201808281160638_201808281179140_COOL CS_OFFL_SIR_IOPM_2_201808281175310_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180835_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180835_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180835_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180835_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180835_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180835_20180828118055_COOL CS_OFFL_SIR_IOPM_2_201808281180805_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281180609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281180609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281180609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281180609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281180609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281180609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119055_COOL CS_OFFL_SIR_IOPM_2_201808281190609_201808281190605_COOL CS_OFFL_SIR_IOPM_2_201808281190609_20180828119060000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180828T150505_20180828T151313_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180828T195353_20180828T19535_COOL Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one o	CS_OFFL_SIR_IOPM_2_20180828T160501_20180828T164017_C001	Ocean Range Averaging Status	
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CS_OFF_SIR_OPM_2_201808281176310_20180828718357_C001 CS_OFF_SIR_OPM_2_201808281182556_201808287183517_C001 CS_OFF_SIR_OPM_2_201808287182556_201808287183517_C001 CS_OFF_SIR_OPM_2_201808287182556_201808287183517_C001 CS_OFF_SIR_OPM_2_201808287183517_201808287190580_C001 CS_OFF_SIR_OPM_2_201808287190509_201808287191306_C001 CS_OFF_SIR_OPM_2_201808287190509_201808287195555_C001 CS_OFF_SIR_OPM_2_201808287190509_201808287195555_C001 CS_OFF_SIR_OPM_2_201808287190505_201808287195555_C001 CS_OFF_SIR_OPM_2_201808287190505_201808287190505_C001 CS_OFF_SIR_OPM_2_201808287190505_201808287190505_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287201802_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287201802_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287201802_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287201805_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287201805_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287201805_C001 CS_OFF_SIR_OPM_2_201808287201405_201808287211521_C001 CS_OFF_SIR_OPM_2_20180828721405_201808287211521_C001 CS_OFF_SIR_OPM_2_20180828721405_2018082872115205_C001 CS_OFF_SIR_OPM_2_20180828721405_2018082872115205_C001 CS_OFF_SIR_OPM_2_20180828721405_2018082872115205_C001 CS_OFF_SIR_OPM_2_20180828721405_2018082872115205_C001 CS_OFF_SIR_OPM_2_20180828721405_2018082872115205_C001 CS_OFF_SIR_OPM_2_20180828721405_201808287213708_C001 CS_OFF_SIR_OPM_2_20180828721405_201808287213708_C001 CS_OFF_SIR_OPM_2_20180828721405_201808287223405_C001 CS_OFF_SIR_OPM_2_20180828723404_201808287233445_C001 CS_OFF_SIR_OPM_2_201808287232405_201808287233445_C001 CS_OFF_SIR_OPM_2_20180828723345_201808287233445_C001 CS_OFF_SIR_OPM_2_20180828723345_201808287233445_C001 CS_OFF_SIR_OPM_2_20180828723455_20180828723345_C001 CS_OFF_SIR_OPM_2_20180828723345_20180828723345_C001 CS_OFF_SIR_OPM_2_20180828723345_20180828723345_C001 CS_OFF_SIR_OPM_2_20180828723345_2080828723345_C001 CS_OFF_SIR_OPM_2_20180828723345_2080828723345_C001 CS_OFF_SIR_OPM_2_20180828723345_C001 CS_OFF_SIR_OPM_2_20180828723345_C001 CS_OFF_SIR	CS_OFFL_SIR_IOPM_2_20180828T165638_20180828T171940_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180828T183157_2010 CS_OFFL_SIR_IOPM_2_20180828T183157_2010 CS_OFFL_SIR_IOPM_2_20180828T190802_20180828T191306_C001 CS_OFFL_SIR_IOPM_2_20180828T190802_20180828T191306_C001 CS_OFFL_SIR_IOPM_2_20180828T19250_20180828T191306_C001 CS_OFFL_SIR_IOPM_2_20180828T19250_20180828T19655_C001 CS_OFFL_SIR_IOPM_2_20180828T19250_20180828T201034_C001 CS_OFFL_SIR_IOPM_2_20180828T201419_20180828T201802_C001 CS_OFFL_SIR_IOPM_2_20180828T201419_20180828T201802_C001 CS_OFFL_SIR_IOPM_2_20180828T201419_20180828T201802_C001 CS_OFFL_SIR_IOPM_2_20180828T201401_20180828T2150_C001 CS_OFFL_SIR_IOPM_2_20180828T21553_20180828T20515_C001 CS_OFFL_SIR_IOPM_2_20180828T21553_20180828T201802_C001 CS_OFFL_SIR_IOPM_2_20180828T21553_20180828T2101802_C001 CS_OFFL_SIR_IOPM_2_20180828T21553_20180828T2101802_C001 CS_OFFL_SIR_IOPM_2_20180828T21553_20180828T210802_C001 CS_OFFL_SIR_IOPM_2_20180828T21555_C001 CS_OFFL_SIR_IOPM_2_20180828T233344_C001 CS_OFFL_SIR_IOPM_2_20180828T233345_C001 CS_OFFL_SIR_IOPM_2_20180828T233345_C001 CS_OFFL_SIR_IOPM_2_20180828T233345_C001 CS_OFFL_SIR_IOPM_2_20180828T233345_C001 CS_OFFL_SIR_IOPM_2_20180828T0333345_C001 CS_OFFL_SIR_IOPM_2_20180828T0333345_C001 CS_OFFL	CS_OFFL_SIR_IOPM_2_20180828T175310_20180828T180257_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180828T195317_20180828T19536_C001 Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180828T196509_20180828T195306_C001 Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180828T205055_20180828T195306_C001 Ocean Range Averaging Status CS_OFFL_SIR_IOPM_2_20180828T205055_20180828T20134_C001 CS_OFFL_SIR_IOPM_2_20180828T205055_20180828T201324_C001 Ocean Range Averaging Status 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. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Averaging Status Flag has been set for one or more records. Ine Ocean Range Av	CS_OFFL_SIR_IOPM_2_20180828T180835_20180828T181859_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180828T192520_20180828T19555_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ioe 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 Ioe 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 h	CS_OFFL_SIR_IOPM_2_20180828T183517_20180828T190536_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180828T201419_20180828T201822_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. 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 F	CS_OFFL_SIR_IOPM_2_20180828T192520_20180828T195655_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_20180828T215455_20180828T221058_C001 CS_OFFL_SIR_IOPM_2_20180828T222900_20180828T222944_C001 CS_OFFL_SIR_IOPM_2_20180828T222900_20180828T222944_C001 CS_OFFL_SIR_IOPM_2_20180828T222900_20180828T222944_C001 CS_OFFL_SIR_IOPM_2_20180828T2224044_20180828T231549_C001 CS_OFFL_SIR_IOPM_2_20180828T224044_20180828T231549_C001 CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T231549_C001 CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T232407_C001 CS_OFFL_SIR_IOPM_2_20180828T232425_20180828T232819_C001 CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T0356641_C001 CS_OFFL_SIR_IOPM_2_20180828T035510_20180828T0356641_C001 CS_OFFL_SIR_IOPM_2_20180828T035510_20180828T0356641_C001 CS_OFFL_SIR_IOPM_2_20180828T0350331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 COCEAN 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. 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 Oc	CS_OFFL_SIR_IOPM_2_20180828T211553_20180828T213708_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180828T222904_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_IOPM_2_20180828T231941_20180828T232407_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. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180828T233344_20180828T233445_C001 Ocean 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. 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. 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 o	CS_OFFL_SIR_IOPM_2_20180828T214406_20180828T214921_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180828T224044_20180828T231549_C001 CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T231549_C001 CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T232407_C001 CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T232819_C001 CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T232819_C001 CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CCS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCS_OFFL_SIR_IOPR_2_20180828T153923 C001 CCS_OFFL_SIR_IOPR_2_20180828T153933 C001 CCS_OFFL_SIR_IOPR_2_20180828T15393 C001 CCS_OFFL_SIR_IOPR_2_20180828T15393 C001 CCS_OFFL_SIR_IOPR_2_2	CS_OFFL_SIR_IOPM_2_20180828T215455_20180828T221058_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T232407_C001 Ice Range Averaging Status CS_OFFL_SIR_IOPM_2_20180828T232425_20180828T232819_C001 Ice Range Averaging Status Ice Range Averaging Status 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. CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 Ice Range Averaging Status Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPM_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 COCEAN 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. 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.	CS_OFFL_SIR_IOPM_2_20180828T222900_20180828T222944_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180828T232425_20180828T232819_C001 Ice Range Averaging Status CS_OFFL_SIR_IOPM_2_20180828T23334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPM_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001	CS_OFFL_SIR_IOPM_2_20180828T224044_20180828T231549_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180828T23334_20180828T233445_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPM_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPM_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CCG_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001	CS_OFFL_SIR_IOPM_2_20180828T231941_20180828T232407_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180828T032551_20180828T032811_C001 CS_OFFL_SIR_IOPN_2_20180828T032551_20180828T065641_C001 CS_OFFL_SIR_IOPN_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPN_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPN_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more 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.	CS_OFFL_SIR_IOPM_2_20180828T232425_20180828T232819_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPN_2_20180828T065510_20180828T065641_C001 CS_OFFL_SIR_IOPN_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPR_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_C001 CC_OCCER_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_IOPM_2_20180828T233334_20180828T233445_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180828T142200_20180828T142307_C001 CS_OFFL_SIR_IOPN_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T0	CS_OFFL_SIR_IOPN_2_20180828T032551_20180828T032811_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001 Ocean Range Averaging Status 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.	CS_OFFL_SIR_IOPN_2_20180828T065510_20180828T065641_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPR_2_201808281050331_201808281050609_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPN_2_20180828T142200_20180828T142307_C001	Ocean Range Averaging Status	
	CS_OFFL_SIR_IOPR_2_20180828T050331_20180828T050609_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20180828T173426_20180828T173923_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.

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

Product	Test Failed	Description
	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_20180828T000922_20180828T001450_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T001455_20180828T001502_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T001509_20180828T001740_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	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_20180828T003850_20180828T005609_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_20180828T005957_20180828T010145_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T011738_20180828T012915_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_20180828T013119_20180828T014556_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_20180828T014849_20180828T015346_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T015425_20180828T015547_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T020316_20180828T021437_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_20180828T021946_20180828T023605_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T031042_20180828T032436_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T032811_20180828T033259_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180828T033339 20180828T033449 C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180828T034051_20180828T040315_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T044104_20180828T050216_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180828T050841_20180828T051214_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180828T051236_20180828T051603_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T051926_20180828T053542_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T053601_20180828T054554_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T061935_20180828T064310_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180828T064630_20180828T065128_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T065135_20180828T065503_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T065921_20180828T070939_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_20180828T071514_20180828T073304_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_20180828T074428_20180828T075148_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_20180828T082139_20180828T082159_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_20180828T082629_20180828T083159_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T083917_20180828T091440_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_20180828T092357_20180828T092618_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_20180828T094420_20180828T100033_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_20180828T100547_20180828T101055_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T101756_20180828T105323_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_20180828T110339_20180828T110517_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_20180828T111548_20180828T112016_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_20180828T112050_20180828T113830_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_20180828T114804_20180828T114959_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T115744_20180828T121137_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_20180828T121141_20180828T121417_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_20180828T121859_20180828T123326_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T124553_20180828T130331_C001	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_20180828T130516_20180828T131930_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T133008_20180828T133410_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180828T133639_20180828T135124_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T135325_20180828T140248_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T142503_20180828T144216_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T144756_20180828T145558_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T145711_20180828T150020_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOFM_2_20180828T150505_20180828T151313_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T151621_20180828T153057_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T160501_20180828T164017_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180828T164629_20180828T165153_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T165638_20180828T171940_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T175310_20180828T180257_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180828T180835_20180828T181859_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180828T182556_20180828T183157_C001	Ice Backscatter Averaging Status	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
CS_OFFL_SIR_IOPM_2_20180828T183517_20180828T190536_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_20180828T190609_20180828T191306_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_20180828T192520_20180828T195655_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_20180828T200505_20180828T201034_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T201419_20180828T201822_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_20180828T204920_20180828T205215_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_20180828T210410_20180828T211521_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_20180828T211553_20180828T213708_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_20180828T214406_20180828T214921_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T215455_20180828T221058_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_20180828T222900_20180828T222944_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_20180828T224044_20180828T231549_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_20180828T232413_20180828T232420_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T232425_20180828T232819_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180828T233334_20180828T233445_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_20180828T032551_20180828T032811_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180828T065510_20180828T065641_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_20180828T142200_20180828T142307_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_20180828T050331_20180828T050609_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_20180828T173426_20180828T173923_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).

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: 3

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180828T015407_20180828T024343_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220180828T033321_20180828T042256_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_2_20180828T164709_20180828T173645_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180827T232516_20180828T001454_C002		The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180828T001454_20180828T010429_C002	lucean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180828T010429_20180828T015407_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T015407_20180828T024343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T024343_20180828T033321_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_220180828T033321_20180828T042256_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_220180828T042256_20180828T051234_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_220180828T051234_20180828T060210_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_220180828T060210_20180828T065148_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_220180828T065148_20180828T074124_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_220180828T074124_20180828T083102_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_220180828T083102_20180828T092037_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T092037_20180828T101015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T101015_20180828T105951_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T105951_20180828T114929_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_220180828T114929_20180828T123904_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T123904_20180828T132842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T132842_20180828T141818_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_220180828T141818_20180828T150756_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_220180828T150756_20180828T155731_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_220180828T155731_20180828T164709_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T164709_20180828T173645_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_220180828T173645_20180828T182623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T182623_20180828T191559_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_220180828T191559_20180828T200537_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T200537_20180828T205512_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_220180828T205512_20180828T214450_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180828T214450_20180828T223426_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_220180828T223426_20180828T232404_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180827T232516_20180828T001454_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180828T001454_20180828T010429_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180828T010429_20180828T015407_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_220180828T015407_20180828T024343_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_220180828T024343_20180828T033321_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_220180828T033321_20180828T042256_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_220180828T042256_20180828T051234_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_220180828T051234_20180828T060210_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_220180828T060210_20180828T065148_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_220180828T065148_20180828T074124_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_220180828T074124_20180828T083102_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_20180828T083102_20180828T092037_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_220180828T092037_20180828T101015_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_20180828T101015_20180828T105951_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_220180828T105951_20180828T114929_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_220180828T114929_20180828T123904_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_20180828T123904_20180828T132842_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_20180828T132842_20180828T141818_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_220180828T141818_20180828T150756_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_20180828T150756_20180828T155731_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_220180828T155731_20180828T164709_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_220180828T164709_20180828T173645_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_220180828T173645_20180828T182623_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_20180828T182623_20180828T191559_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_220180828T191559_20180828T200537_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_220180828T200537_20180828T205512_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_220180828T205512_20180828T214450_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_220180828T214450_20180828T223426_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_220180828T223426_20180828T232404_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.

Test Failed	Description
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	Ocean Retracking Quality Flag

CS_OFFL_SIR_IOP_220180828T191559_20180828T200537_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T200537_20180828T205512_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T205512_20180828T214450_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T214450_20180828T223426_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180828T223426_20180828T232404_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.