



1. Overview

Report Production:	07-Jan-2019	
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	See Section 5.2	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

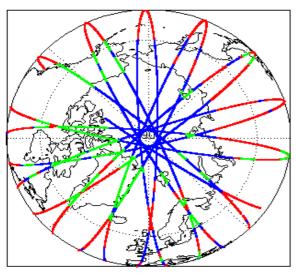
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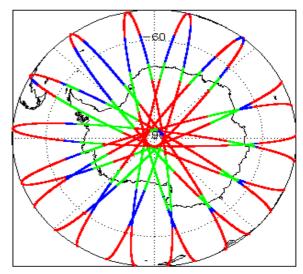
20-Dec-2018 None

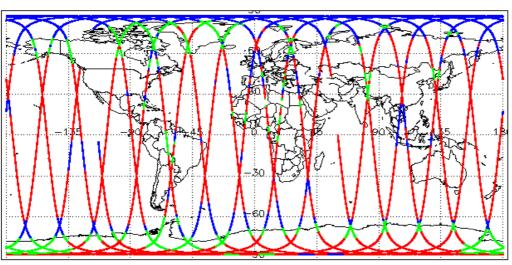
21-Dec-2018 None

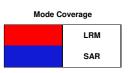
22-Dec-2018 SIRAL unavailability on 22-Dec-2018 from 21:02:22 to 00:28:10 on 23-Dec-2018 due to a planned orbit manoeuvre.

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:

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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:

63

Product	Test Failed	Description
CS_OFFL_SIR_IOPR1B_20181221T002801_20181221T003031_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20181221T011544_20181221T011717_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20181221T014640_20181221T014936_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20181221T024417_20181221T024511_C001	Attitude correction missing	The attitude has not been corrected

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

24

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20181221T193743_20181221T194913_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20181221T195116_20181221T200623_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T010245_20181221T010725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T020545_20181221T020657_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T061240_20181221T061619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T061705_20181221T061740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T070541_20181221T070707_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T075629_20181221T075756_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T083110_20181221T083723_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T093054_20181221T093304_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T142315_20181221T142408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T143349_20181221T143511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T173758_20181221T173845_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T173922_20181221T174207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T174211_20181221T174338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T192141_20181221T192244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T205607_20181221T205915_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T205934_20181221T210145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20181221T224517_20181221T224552_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181221T020657_20181221T021021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181221T064912_20181221T065613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181221T093304_20181221T093359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181221T132916_20181221T133249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20181221T174338_20181221T175112_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

2

Product	Test Failed
CS_OFFL_SIR_IOPR_2_20181221T193505_20181221T193507_C001	Percentage of processing errors detected greater than minimum acceptable threshold.
CS_OFFL_SIR_IOPR_2_20181221T193421_20181221T193426_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

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.

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181221T002314_20181221T002639_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T003032_20181221T004107_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T004644_20181221T010244_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T012616_20181221T014640_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T014936_20181221T015422_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T015745_20181221T020545_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T021021_20181221T024255_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T025619_20181221T025720_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T031805_20181221T033239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T033719_20181221T034234_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T034905_20181221T041044_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T041330_20181221T042309_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T043612_20181221T043914_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T045339_20181221T045940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T050128_20181221T051155_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T052828_20181221T060145_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T061740_20181221T062438_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T062456_20181221T064911_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T070253_20181221T070541_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T070739_20181221T073611_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T075239_20181221T075629_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T075756_20181221T081348_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T082739_20181221T083110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T084020_20181221T084446_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T084710_20181221T090131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T090311_20181221T090553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T094043_20181221T094554_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T094837_20181221T101217_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T101510_20181221T102358_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T102620_20181221T105010_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T111711_20181221T115048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T115440_20181221T115616_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T115726_20181221T120149_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T120535_20181221T122243_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T125847_20181221T131343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T131917_20181221T132916_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T133640_20181221T134227_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T134510_20181221T135022_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T135231_20181221T140743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

Co. C.P.L. SHI, DPM 2, 2016/22/THS2015_00100100000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20181221T143512_20181221T150901_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
SOFF, SIR (DPM 2 2009)221115011 2009)221115029 (2001) Cooken Flange Averaging Status Cooken F	CS_OFFL_SIR_IOPM_2_20181221T151546_20181221T152058_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
So CPFL_SIR_UPPM_2.0111221116142_01112211104120_0011 Cosen Rarge Averaging States Annual State Plant Details Plant bean set for one or more record. Cis. CPFL_SIR_UPPM_2.01112211110420_0111221110420_0011 Cosen Rarge Averaging States Annual Plant Details Plant bean set for one or more record. Cis. CPFL_SIR_UPPM_2.01112211110420_011112211170420_0011 Cosen Rarge Averaging States Annual Plant Details Plant bean set for one or more record. Cis. CPFL_SIR_UPPM_2.01112211170440_011112211170410_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211170440_0111122117170710_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211170410_01111271170710_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211170410_01111271170_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211170410_011112711070_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211110410_011112711070_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211110410_011112711070_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.01112211110410_011112711070_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111221110410_01111271107040_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111221110410_0111271104104_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111221110410_011121110410_0011 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111221110410_0112111041001 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111221110410110111041001 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111221110410110111041011041 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.011122111041011011041011041001 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.0111122111041011041041041001 Cosen Rarge Averaging States Cis. CPFL_SIR_UPPM_2.011112211104104101	CS_OFFL_SIR_IOPM_2_20181221T152744_20181221T153203_C001	Ocean Range Averaging Status	
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CS_OFFL_SR_JOPM_2_201812217173512_0001 CS_OFFL_SR_JOPM_2_201812217173792_0001 CS_OFFL_SR_JOPM_2_201812217173792_0001 CS_OFFL_SR_JOPM_2_201812217173792_0001 CS_OFFL_SR_JOPM_2_201812217173792_0001 CS_OFFL_SR_JOPM_2_201812217173792_0001 CS_OFFL_SR_JOPM_2_201812217173792_0001 CS_OFFL_SR_JOPM_2_20181221718298_201812217182792_0001 CS_OFFL_SR_JOPM_2_20181221718298_201812217182792_0001 CS_OFFL_SR_JOPM_2_20181221718298_201812217182792_0001 CS_OFFL_SR_JOPM_2_20181221718298_201812217182792_0001 CS_OFFL_SR_JOPM_2_20181221718298_201812217182992_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718515_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718410002_0001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718410001 CS_OFFL_SR_JOPM_2_20181221718298_20181221718410001 CS_OFFL_SR_JOPM_2_20181221718086_00181221700012_0001 CS_OFFL_SR_JOPM_2_20181221718086_00181221700012_0001 CS_OFFL_SR_JOPM_2_20181221720086_00181221700012_0001 CS_OFFL_SR_JOPM_2_20181221720086_001812217000140_00018122170001001 CS_OFFL_SR_JOPM_2_20181221720086_00181221700051_0001 CS_OFFL_SR_JOPM_2_201812217200152201100051_0001 CS_OFFL_SR_JOPM_2_201812217200152201100051_0001 CS_OFFL_SR_JOPM_	CS_OFFL_SIR_IOPM_2_20181221T165553_20181221T170002_C001	Ice Range Averaging Status	
Cean Flarge Averaging Status Flag NoPM 2 20191227173710_2019122717378_0001 Ce_OFFL_SRI_IOPM 2_20191227173710_2019122717378_0001 Ce_OFFL_SRI_IOPM 2_20191227173737_0019122717378_0001 Ce_OFFL_SRI_IOPM 2_2019122717374_0019122717374_0019122717374_0001 Ce_OFFL_SRI_IOPM 2_2019122717374_0019122717374_0001 Ce_OFFL_SRI_IOPM 2_20191227173744_0001 Ce_OFFL_SRI_IOPM 2_2019122717364_0001 Ce_OFFL_SRI_IOPM 2_2019122717364_0001 Ce_OFFL_SRI_IOPM 2_2019122717364_0001 Ce_OFFL_SRI_IOPM 2_201912271	CS_OFFL_SIR_IOPM_2_20181221T170440_20181221T172413_C001	Ocean Range Averaging Status	
Cose Finger Averaging Status So, OFFL_SRI_JOPM_2_20181221T17540_20181221T175786_0001 Ocean Range Averaging Status Cocean Range Averaging Status Cocean Range Averaging Status The Ocean Range Averaging Statu	CS_OFFL_SIR_IOPM_2_20181221T172508_20181221T172928_C001	Ocean Range Averaging Status	
Coorn Range Averaging Status Fine Cocasin Range Averaging Status Fine Locasin Range Averaging Status Fine Pass been set for one or more records. Cocasin Range Averaging Status Fine Locasin Range Raveraging Status Fine Pass been set for one or more records. Cocasin Range Averaging Status Fine Locasin Range Raveragin	CS_OFFL_SIR_IOPM_2_20181221T173354_20181221T173710_C001	Ocean Range Averaging Status	
Coes Range Averaging Status Find has been set for one or more forcods. Find Coes Range Averaging Status Find Coes Range Averaging Status Find Coes Range Averaging Status Find has been set for one or more forcods. Find Coes Range Averaging Status Find Find Coes Range Averaging Status Find has been set for one or more forcods. Find Coes Range Averaging Status Fin	CS_OFFL_SIR_IOPM_2_20181221T173710_20181221T173758_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181221T183939_20181221T18595_CO01 CS_OFFL_SIR_IOPM_2_20181221T183939_2018122T18595_CO01 CS_OFFL_SIR_IOPM_2_20181221T183939_2018122T18595_CO01 CS_OFFL_SIR_IOPM_2_20181221T183939_2018122T189491_CO01 CS_OFFL_SIR_IOPM_2_20181221T183939_2018122T189491_CO01 CS_OFFL_SIR_IOPM_2_20181221T183939_2018122T189491_CO01 CS_OFFL_SIR_IOPM_2_2018122T1783939_2018122T1789491_CO01 CS_OFFL_SIR_IOPM_2_2018122T1783939_2018122T1789506_CO01 CS_OFFL_SIR_IOPM_2_2018122T1783939_CO01 CS_OFFL_SIR_IOPM_2_2018122T1783939_CO01 CS_OFFL_SIR_IOPM_2_2018122T17200845_D018122T1720083_CO01 CS_OFFL_SIR_IOPM_2_2018122T17200845_D018122T1720085_CO01 CS_OFFL_SIR_IOPM_2_2018122T17200846_CO015C_OFFL_SIR_IOPM_2_2018122T17200845_CO01	CS_OFFL_SIR_IOPM_2_20181221T175440_20181221T181106_C001	Ocean Range Averaging Status	
GS_OFFL_SIR_IOPM_2_20181221T183427_20181221T183815_C001 CS_OFFL_SIR_IOPM_2_20181221T183427_20181221T193815_C001 CS_OFFL_SIR_IOPM_2_20181221T193743_20181221T194913_C001 CS_OFFL_SIR_IOPM_2_20181221T193743_20181221T194913_C001 CS_OFFL_SIR_IOPM_2_20181221T195116_20181221T200623_C001 CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T200623_C001 CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T200623_C001 CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T201341_C001 CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T201348_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T203841_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T210388_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T210388_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T210388_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T210388_20181221T201545_C001 CS_OFFL_SIR_IOPM_2_20181221T210388_20181221T205186_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205186_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T205355_C001 CS_OFFL_SIR_IOPM_2_20181221T2153352_C001822T1205355_C001 CS_OFFL_SIR_IOPM_2_20181221T2153352_C001822T1205355_C001 CS_OFFL_SIR_IOPM_2_20181221T2153352_C00186627_C001 CS_OFFL_SIR_IOPM_2_20181221T2153552_C0011 CS_OFFL_SIR	CS_OFFL_SIR_IOPM_2_20181221T181109_20181221T182726_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181221T185092_0181221T186915_0001 CS_OFFL_SIR_IOPM_2_20181221T185092_0181221T186915_0001 CS_OFFL_SIR_IOPM_2_20181221T185859_20181221T196193_0001 CS_OFFL_SIR_IOPM_2_20181221T196733_20181221T196193_0001 CS_OFFL_SIR_IOPM_2_20181221T196733_20181221T196913_0001 CS_OFFL_SIR_IOPM_2_20181221T196943_20181221T196913_0001 CS_OFFL_SIR_IOPM_2_20181221T196945_20181221T200944_200181221T200945_20181221T200945_20181221T200945_20181221T200945_20181221T200945_200181221T200094_200181221T200094	CS_OFFL_SIR_IOPM_2_20181221T182918_20181221T183444_C001	Ice Range Averaging Status	
CS_OFF_SIR_IOPM_2_201812211189589_201812211791808_CO01 CS_OFF_SIR_IOPM_2_201812211189589_201812217194913_CO01 CS_OFF_SIR_IOPM_2_20181221719516_201812217200823_CO01 CS_OFF_SIR_IOPM_2_20181221719516_201812217200823_CO01 CS_OFF_SIR_IOPM_2_20181221719516_201812217200823_CO01 CS_OFF_SIR_IOPM_2_20181221719518_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_201812217201955_CO01 CS_OFF_SIR_IOPM_2_20181221720384_20181221720501_CO01 CS_OFF_SIR_IOPM_2_20181221720384_20181221720501_CO01 CS_OFF_SIR_IOPM_2_20181221720384_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721938_20181221721955_CO01 CS_OFF_SIR_IOPM_2_201812217219332_20181221721955_CO01 CS_OFF_SIR_IOPM_2_201812217219332_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721954_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721954_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721954_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721954_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721954_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721952_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721954_2018122172395_CO01 CS_OFF_SIR_IOPM_2_20181221721954_2018122172395_CO01 CS_OFF_SIR_IOPM_2_20181221721955_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721955_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721955_20181221721955_CO01 CS_OFF_SIR_IOPM_2_20181221721955_CO01 CS_OFF_SIR_IOPM_2_201	CS_OFFL_SIR_IOPM_2_20181221T183503_20181221T183729_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181221T193743_20181221T194913_C001 Coean Range Averaging Status The Coean Range Averaging Status Flag has been set for one or more records. S_OFFL_SIR_IOPM_2_20181221T20384_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T20348_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T20348_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T20348_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T20348_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T20348_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T20348_20181221T203501_C001 CS_OFFL_SIR_IOPM_2_20181221T20341_20181221T203536_C001 CS_OFFL_SIR_IOPM_2_20181221T20334_20181221T20535_C001 CS_OFFL_SIR_IOPM_2_20181221T20338_20181221T214535_C001 CS_OFFL_SIR_IOPM_2_20181221T21450_20181221T214555_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T21533_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T25333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T25332_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23333_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23332_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T23532_20181221T23535_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T23535_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T23535_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_20181221T23535_C001 CS_OFFL_SIR_IOPM	CS_OFFL_SIR_IOPM_2_20181221T184547_20181221T185815_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T195116_20181221T201345_C001 CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T201341_C001 CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T201345_C001 CS_OFFL_SIR_IOPM_2_20181221T201346_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T201346_20181221T201355_C001 CS_OFFL_SIR_IOPM_2_20181221T201420_20181221T201545_C001 CS_OFFL_SIR_IOPM_2_20181221T201420_20181221T203501_C001 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T203501_C001 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205136_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214535_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214535_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214555_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T2152544_C001 CS_OFFL_SIR_IOPM_2_20181221T233332_20181221T2152445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T2152445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T223647_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T233547_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T233547_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T235445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T235445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T235445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T235445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T235445_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T2333301_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T235312_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T235312_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T235312_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T235312_C0181221T05545_C001 CS_OFFL_SIR_IOPM_2_20181221T235322_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_C0181221T235546_C001 CS_OFFL_SIR_IOPM_2_20181221T23532_C0181221T235546_C0	CS_OFFL_SIR_IOPM_2_20181221T185859_20181221T191608_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T201842_20181221T201345_CO01 CS_OFFL_SIR_IOPM_2_20181221T201842_20181221T20155_CO01 CS_OFFL_SIR_IOPM_2_20181221T202240_20181221T201540_CO01 CS_OFFL_SIR_IOPM_2_20181221T202240_20181221T2055_CO01 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205516_CO01 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205516_CO01 CS_OFFL_SIR_IOPM_2_20181221T21303941_20181221T205516_CO01 CS_OFFL_SIR_IOPM_2_20181221T21303941_20181221T205516_CO01 CS_OFFL_SIR_IOPM_2_20181221T21303941_20181221T215554_CO01 CS_OFFL_SIR_IOPM_2_20181221T21303942_20181221T215545_CO01 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215545_CO01 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215545_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T2133300_20181221T205616_CO01 CS_OFFL_SIR_IOPM_2_20181221T2133000_20181221T205626_CO01 CS_OFFL_SIR_IOPM_2_20181221T2133000_20181221T205646_CO01 CS_OFFL_SIR_IOPM_2_20181221T2133000_20181221T205646_CO01 CS_OFFL_SIR_IOPM_2_20181221T216562_20181221T205646_CO01 CS_OFFL_SIR_IOPM_2_20181221T216562_20181221T206467_CO01 CS_OFFL_SIR_IOPM_2_20181221T215516_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_C001 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T21535C_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T21535C_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T21535C_CO01 CS_OFFL_SIR_IOPM_2_20181221T135344_C001 CS_OFFL_SIR_IOPM_2_20181221T135344_C001 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T21535C_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T21535C_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T21535C_CO01 CS_OFFL_SIR_IOPM_2_20181221T215314_C0181221T215155C_CO01 CS_OFFL	CS_OFFL_SIR_IOPM_2_20181221T193743_20181221T194913_C001	Ocean Range Averaging Status	records.
to Range Averaging Status CS_OFFL_SIR_IOPM_2_20181221T201348_20181221T20155_C001 CS_OFFL_SIR_IOPM_2_20181221T202040_20181221T201540_C001 CS_OFFL_SIR_IOPM_2_20181221T202040_20181221T205351_C001 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205351_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T215545_C001 CS_OFFL_SIR_IOPM_2_20181221T2150338_20181221T215545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T22544_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T22554_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T235357_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T233231_C0181221T2332340_C001 CS_OFFL_SIR_IOPM_2_20181221T203001_20181221T2332340_C001 CS_OFFL_SIR_IOPM_2_20181221T203001_20181221T2332340_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_C0181221T2332340_C001 CS_OFFL_SIR_IOPM_2_20181221T203001_20181221T2332340_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T203627_C001 CS_OFFL_SIR_IOPM_2_20181221T016447_20181221T204627_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T0156447_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T1054444_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T1054444_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T1054444_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T1054444_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T104444_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T104444_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T1041045_208181221T040555_C001 CS_OFFL_SIR_IOPM_2_20181221T1040444_20181221T13304	CS_OFFL_SIR_IOPM_2_20181221T195116_20181221T200623_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T201342_20181221T201352_C001 CS_OFFL_SIR_IOPM_2_20181221T203501_2001 CS_OFFL_SIR_IOPM_2_20181221T20382_0181221T205136_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T2155136_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T2155136_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T215554_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T215545_C001 CS_OFFL_SIR_IOPM_2_20181221T21333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T21545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T21545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T225811_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T23557_C001 CS_OFFL_SIR_IOPM_2_20181221T230001212181221T23557_C001 CS_OFFL_SIR_IOPM_2_20181221T233350_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233350_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233350_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233350_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233500_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233390_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233390_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233390_C0181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T21834012_C001 CS_OFFL_SIR_IOPM_2_20181221T21834012_C001 CS_OFFL_SIR_IOPM_2_20181221T2183401_C001 CS_OFFL_SIR_IOPM_2_20181221T2183401_C001 CS_OFFL_SIR_IOPM_2_20181221T2183401_C001 CS_OFFL_SIR_IOPM_2_20181221T118344_20181221T215317_C001 CG_OFFL_SIR_IOPM_2_20181221T118344_20181221T215310_C001 CG_OFFL_SIR_IOPM_2_20181221T118344_20181221T215310_C001 CG_OFFL_SIR_IOPM_2_20181221T118344_20181221T215310_C001 CG_OFFL_SIR_IOPM_2_20181221T118344_20181221T215310_C001 CG_OFFL_SIR_IOPM_2_20181221T118344_20181221T183450_C001 CG_OFFL_SIR_IOPM_2_20181221T183444_20181221T183450_C001 CG_OFFL_SIR_IOPM_2_20181221T183444_20181221T183450_C001 CG_OFFL_SIR_IOPM_2_20181221T183	CS_OFFL_SIR_IOPM_2_20181221T200845_20181221T201341_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20181221T203240_20181221T203501_C001 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205136_C001 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205136_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214535_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214535_C001 CS_OFFL_SIR_IOPM_2_20181221T214810_20181221T215254_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T21554_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T21545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T21545_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215244_C001 CS_OFFL_SIR_IOPM_2_20181221T215344_20181221T2323447_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233300_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T23300_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T23300_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T0545_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T0546627_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T0546627_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T0546627_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T214310_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T214310_C001 CS_OFFL_SIR_IOPM_2_20181221T104447_20181221T04430_C001 CS_OFFL_SIR_IOPM_2_20181221T104447_20181221T04300_C001 CCEAR Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPR_2_20181221T1043	CS_OFFL_SIR_IOPM_2_20181221T201348_20181221T201355_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T20516_C001 CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T21556_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T215556_C001 CS_OFFL_SIR_IOPM_2_20181221T214810_20181221T215556_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215455_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T21545_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T215254_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T22551_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T333300_02181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T05621_20181221T05745_C001 CS_OFFL_SIR_IOPM_2_20181221T05641_20181221T084627_C001 CS_OFFL_SIR_IOPM_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPM_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215355_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215355_C001 CS_OFFL_SIR_IOPM_2_20181221T21524242_20181221T1215355_C001 CS_OFFL_SIR_IOPM_2_20181221T2152442_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152444_20181221T10442_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152444_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152444_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152444_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152444_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152444_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152442_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T1524524_20181221T152555_C001 CS_OFFL_SIR_IOPM_2_20181221T152442_20181221T10535_C001 CS_OFFL_SIR_IOPM_2_20181221T152442_20181221T105	CS_OFFL_SIR_IOPM_2_20181221T201420_20181221T201540_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214535_C001 CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T215254_C001 CS_OFFL_SIR_IOPM_2_20181221T214810_20181221T215254_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T222611_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233331_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233300_20181221T235548_C001 CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T23548_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T21810_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T218317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T218317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CCS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CCS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CCS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CCS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPM_2_20181221T202240_20181221T203501_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T21333_20181221T215254_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T222611_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T2330011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T23557_C001 CS_OFFL_SIR_IOPM_2_20181221T233230_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T033900_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T033900_20181221T05745_C001 CS_OFFL_SIR_IOPM_2_20181221T034447_20181221T046427_C001 CS_OFFL_SIR_IOPM_2_20181221T044447_20181221T044627_C001 CS_OFFL_SIR_IOPM_2_20181221T215512_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T215512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T04552_20181221T214550_C001 CS_OFFL_SIR_IOPM_2_20181221T215512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T215512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T215512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T115512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T115512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T115512_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T15515_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T15515_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T15515_20181221T215517_C001 CS_OFFL_SIR_IOPM_2_20181221T15515_20181221T041330_C001 CS_OFFL_SIR_IOPM_2_20181221T153444_20181221T04535_C001 CS_OFFL_SIR_IOPM_2_20181221T1153444_20181221T04535_C001 CS_OFFL_SIR_IOPM_2_20181221T1153444_20181221T12555_C001 CS_OFFL_SIR_IOPM_2_20181221T1183445_C001 CS_OFFL_SIR_IOPM_2_20181221T1183445_C001 CS_OFFL_SIR_IOPM_2_20181221T1183450_C001 CS_OFFL_SIR_IOPM_2_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_20181221T1	CS_OFFL_SIR_IOPM_2_20181221T203941_20181221T205136_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T22541_C001 CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T2332447_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T2332447_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T23324557_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233248_C001 CS_OFFL_SIR_IOPM_2_20181221T233200_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T084667_C001 CS_OFFL_SIR_IOPM_2_20181221T084447_20181221T084667_C001 CS_OFFL_SIR_IOPM_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T041330_C001 CS_OFFL_SIR_IOPM_2_20181221T2145322_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T1304442_20181221T105555_C001 CS_OFFL_SIR_IOPR_2_20181221T1304442_20181221T105555_C001 CS_OFFL_SIR_IOPR_2_20181221T1304442_20181221T105555_C001 CS_OFFL_SIR_IOPR_2_20181221T13044442_20181221T104330_C001 CS_OFFL_SIR_IOPR_2_20181221T1304442_20181221T104330_C001 CS_OFFL_SIR_IOPR_2_20181221T150554_20181221T105555_C001 CS_OFFL_SIR_IOPR_2_20181221T150554_20181221T105555_C001 CS_OFFL_SIR_IOPR_2_20181221T150554_20181221T105555_C001 CS_OFFL_SIR_IOPR_2_20181221T150555_C001 CS_OFFL_SIR_IOPR_2_20181221T15	CS_OFFL_SIR_IOPM_2_20181221T213038_20181221T214535_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T21533_20181221T215344_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T2332557_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233200_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T016621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPM_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T041330_C001 CS_OFFL_SIR_IOPM_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T1041045_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T1834450_C001 CS_OFFL_SIR_IOPR_2_20181221T1834450_C001 CS_OFFL_SIR_IOPR_2_20181221T1834450_C001 CS_OFFL_SIR_IOPR_2_20181221T1834450_C0	CS_OFFL_SIR_IOPM_2_20181221T214810_20181221T215254_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001 CS_OFFL_SIR_IOPM_2_20181221T233011_20181221T233557_C001 CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T084447_20181221T0484627_C001 CS_OFFL_SIR_IOPM_2_20181221T0154552_20181221T015452_20181221T015621_20181221T015621_20181221T015621_20181221T015621_20181221T015621_20181221T015621_20181221T015621_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPM_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPM_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T214810_C001 CS_OFFL_SIR_IOPM_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPM_2_20181221T041045_20181221T041030_C001 CS_OFFL_SIR_IOPM_2_20181221T041045_20181221T041030_C001 CS_OFFL_SIR_IOPM_2_20181221T041045_20181221T041030_C001 CS_OFFL_SIR_IOPM_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPM_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPM_2_	CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001 Loe Range Averaging Status CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_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 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 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 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	CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T222611_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T235248_C001 CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPN_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPN_2_20181221T0184447_20181221T084627_C001 CS_OFFL_SIR_IOPN_2_20181221T214852_20181221T214810_C001 CS_OFFL_SIR_IOPN_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPN_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T35559_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T35559_C001 CS_OFFL_SIR_IOPR_2_20181221T215554_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T215554_20181221T35559_C001 CS_OFFL_SIR_IOPR_2_20181221T215554_20181221T35559_C00	CS_OFFL_SIR_IOPM_2_20181221T230011_20181221T232447_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181221T015621_20181221T015745_C001 CS_OFFL_SIR_IOPN_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPN_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPN_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T214810_C001 CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPN_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_	CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPN_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPN_2_20181221T084447_20181221T084627_C001 CS_OFFL_SIR_IOPN_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPN_2_20181221T214552_20181221T214810_C001 CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPN_2_20181221T041045_20181221T215317_C001 CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T215254_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T215254_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T215254_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001 CS_OFFL_SIR_IOPR_2_20181221T2152554_20181221T215259_C001	CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPN_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPN_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_	CS_OFFL_SIR_IOPN_2_20181221T015621_20181221T015745_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001 CS_OFFL_SIR_IOPN_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T215259_C001	CS_OFFL_SIR_IOPN_2_20181221T084447_20181221T084627_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183450_C001 C	CS_OFFL_SIR_IOPN_2_20181221T214552_20181221T214810_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20181221T1041045_20161221T041330_C001 CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_20181221T183450_C001 CS_OFFL_SIR_IOPR_2_201812	CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120335_C001 CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 Ice Range Averaging Status CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_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	CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 Ice Range Averaging Status records. CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPR_2_20181221T120422_20181221T120535_C001	Ocean Range Averaging Status	records.
CS OFFI SIB IOPB 2 201812211215254 201812211215259 COOL	CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_IOPR_2_20181221T215254_20181221T215259_C001	Ice 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
CS_OFFL_SIR_IOPM_2_20181221T003032_20181221T004107_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T004644_20181221T010244_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	0 0	The SWH and Ocean Averaging Status Flags have 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_20181221T014936_20181221T015422_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181221T015745 20181221T020545 C001 Ice Backscatter Averaging Status ecords SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181221T021021_20181221T024255_C001 Backscatter Averaging Status more record SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_IOPM_2_20181221T025619_20181221T025720_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 20181221T031805 20181221T033239 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T033719_20181221T034234_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 20181221T034905 20181221T041044 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 20181221T041330 20181221T042309 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_20181221T043612_20181221T043914_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_20181221T045339_20181221T045940_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 20181221T050128 20181221T051155 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_20181221T052828_20181221T060145_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 20181221T061740 20181221T062438 C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20181221T062456_20181221T064911_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T070253_20181221T070541_C001 records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR IOPM 2 20181221T070739 20181221T073611 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T075239_20181221T075629_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_20181221T075756_20181221T081348_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_20181221T082739_20181221T083110_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T083724_20181221T083959_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T084020_20181221T084446_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 20181221T084710 20181221T090131 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_20181221T090311_20181221T090553_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR IOPM 2 20181221T094043 20181221T094554 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_20181221T094837_20181221T101217_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181221T101510 20181221T102358 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_20181221T102620_20181221T105010_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_20181221T111711_20181221T115048_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T115440_20181221T115616_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181221T115726 20181221T120149 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_20181221T120535_20181221T122243_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20181221T125847_20181221T131343_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 20181221T131917 20181221T132916 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T133640_20181221T134227_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 20181221T134510 20181221T135022 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 20181221T135231 20181221T140743 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_20181221T143512_20181221T150901_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181221T151546 20181221T152058 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 20181221T152744 20181221T153203 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_20181221T153211_20181221T154201_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR IOPM 2 20181221T155815 20181221T160052 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 20181221T161423 20181221T162352 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_20181221T162638_20181221T164810_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181221T165553 20181221T170002 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_20181221T170440_20181221T172413_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_IOPM_2_20181221T172508_20181221T172928_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 20181221T173354 20181221T173710 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_20181221T175440_20181221T181106_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_20181221T181109_20181221T182726_C001 Backscatter Averaging Status more record The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20181221T182918 20181221T183444 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOPM_2_20181221T183503_20181221T183729_C001 Ice Backscatter Averaging Status records

CS_OFFL_SIR_IOPM_2_20181221T184547_20181221T185815_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_20181221T185859_20181221T191608_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_20181221T193743_20181221T194913_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_20181221T195116_20181221T200623_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_20181221T200845_20181221T201341_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T201348_20181221T201355_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T201420_20181221T201540_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T202240_20181221T203501_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_20181221T203941_20181221T205136_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_20181221T213038_20181221T214535_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_20181221T214810_20181221T215254_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T215259_20181221T215311_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T215333_20181221T215445_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T215944_20181221T222611_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_20181221T230011_20181221T232447_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_20181221T232832_20181221T233208_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T233231_20181221T233557_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181221T233900_20181221T235248_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_20181221T015621_20181221T015745_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181221T084447_20181221T084627_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_20181221T214552_20181221T214810_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181221T215312_20181221T215317_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181221T041045_20181221T041330_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_20181221T120422_20181221T120535_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
		The les Desired to Averaging Classes Flor has been set for one or more
CS_OFFL_SIR_IOPR_2_20181221T183444_20181221T183450_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has 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.

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.

Number of products with errors:

29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20181221T002319_20181221T011256_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_220181221T011256_20181221T020232_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_220181221T020232_20181221T025209_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T025209_20181221T034146_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_220181221T034146_20181221T043123_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_220181221T043123_20181221T052059_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T052059_20181221T061036_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_220181221T061036_20181221T070013_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_220181221T070013_20181221T074950_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_220181221T074950_20181221T083926_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T083926_20181221T092904_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_220181221T092904_20181221T101840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T101840_20181221T110817_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_220181221T110817_20181221T115754_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T115754_20181221T124731_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_220181221T124731_20181221T133707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T133707_20181221T142644_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T142644_20181221T151621_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_220181221T151621_20181221T160558_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_220181221T160558_20181221T165534_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_220181221T165534_20181221T174511_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_220181221T174511_20181221T183448_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_220181221T183448_20181221T192425_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_220181221T192425_20181221T201401_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_220181221T201401_20181221T210339_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_220181221T210339_20181221T215315_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T215315_20181221T224252_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T224252_20181221T233229_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T233229_20181222T002206_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_2_20181221T002319_20181221T011256_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_20181221T011256_20181221T020232_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_20181221T020232_20181221T025209_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_20181221T025209_20181221T034146_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_20181221T034146_20181221T043123_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_20181221T043123_20181221T052059_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_220181221T052059_20181221T061036_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_220181221T061036_20181221T070013_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_220181221T070013_20181221T074950_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_220181221T074950_20181221T083926_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_220181221T083926_20181221T092904_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_220181221T092904_20181221T101840_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_20181221T101840_20181221T110817_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_220181221T110817_20181221T115754_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_20181221T115754_20181221T124731_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_220181221T124731_20181221T133707_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_220181221T133707_20181221T142644_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_220181221T142644_20181221T151621_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_220181221T151621_20181221T160558_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_220181221T160558_20181221T165534_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_220181221T165534_20181221T174511_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_220181221T174511_20181221T183448_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_220181221T183448_20181221T192425_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_220181221T192425_20181221T201401_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_220181221T201401_20181221T210339_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_220181221T210339_20181221T215315_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_220181221T215315_20181221T224252_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_220181221T224252_20181221T233229_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_220181221T233229_20181222T002206_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181221T002319_20181221T011256_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T011256_20181221T020232_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T025209_20181221T034146_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T034146_20181221T043123_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T052059_20181221T061036_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T061036_20181221T070013_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T070013_20181221T074950_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T074950_20181221T083926_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T083926_20181221T092904_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T092904_20181221T101840_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T101840_20181221T110817_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20181221T110817_20181221T115754_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220181221T115754_20181221T124731_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T124731_20181221T133707_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T133707_20181221T142644_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T142644_20181221T151621_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T151621_20181221T160558_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T160558_20181221T165534_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T165534_20181221T174511_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T174511_20181221T183448_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T183448_20181221T192425_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T192425_20181221T201401_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T201401_20181221T210339_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T210339_20181221T215315_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T215315_20181221T224252_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T224252_20181221T233229_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181221T233229_20181222T002206_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.