



# 1. Overview

Report Production:	05-Dec-2017  CryoSat Ocean Processor	
Processor Used:		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

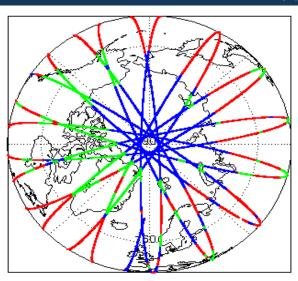
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

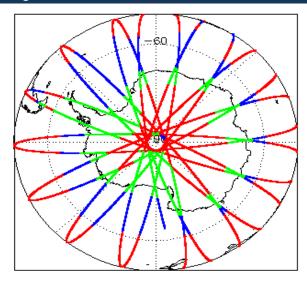
Mission /			News
02-Dec-	2017	None	

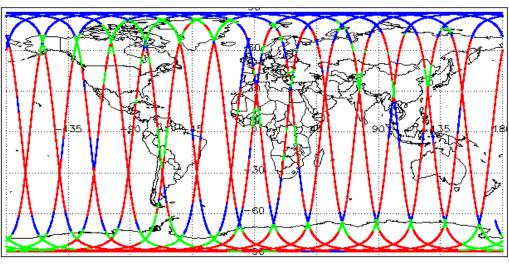
03-Dec-2017 None

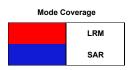
04-Dec-2017 Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

Number of products with errors:

0

## 4.2 L1B Product Header Analysis

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

# 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

## 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

- (

# 4.5 L1B Measurement Confidence Data Check

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

Number of products with errors:

53

Number of products with errors.	Took Falled	Description
Product  CS_OFFL_SIR_IOPM1B_20171203T050254_20171203T051004_C001	Test Failed Power scaling error	<b>Description</b> There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20171203T064557_20171203T065715_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171203T013940_20171203T014011_C001	Attitude correction missing	records The attitude has not been corrected
CS OFFL SIR IOPR1B 20171203T015852 20171203T015935 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T021251_20171203T021856_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T023008_20171203T023051_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171203T024554 20171203T024756 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T035108_20171203T035147_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T040918_20171203T041034_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T042457_20171203T043313_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T045912_20171203T045956_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T053430_20171203T053613_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T062433_20171203T062643_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T062643_20171203T062714_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171203T072726 20171203T072927 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T080627_20171203T081517_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T083629_20171203T084019_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T085112_20171203T085543_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T090624_20171203T090844_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T091251_20171203T091734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T094653_20171203T095439_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T112354_20171203T112608_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T121025_20171203T121227_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T121830_20171203T121836_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T122358_20171203T122744_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T130626_20171203T131347_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T134945_20171203T135034_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T140139_20171203T140842_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T144540_20171203T145059_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T153640_20171203T153646_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T161944_20171203T162026_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T162427_20171203T163029_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T163651_20171203T163659_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T163701_20171203T163708_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T170731_20171203T170902_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T172102_20171203T172256_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T185957_20171203T190236_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T191312_20171203T191846_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T195649_20171203T195719_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T211703_20171203T211739_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T211911_20171203T212807_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T213051_20171203T213209_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T213227_20171203T213240_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T213656_20171203T213734_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T213940_20171203T214020_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T215818_20171203T215953_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T220222_20171203T220747_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T221746_20171203T222133_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T224247_20171203T224532_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T230642_20171203T230700_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T231209_20171203T231403_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T231612_20171203T231808_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171203T233137_20171203T233325_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:

26

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171203T031927_20171203T033636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171203T080422_20171203T080627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171203T151409_20171203T152849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171203T182158_20171203T184639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T004421_20171203T004942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T031701_20171203T031927_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T035147_20171203T035249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T062832_20171203T062900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T081517_20171203T082036_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T094556_20171203T094653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T144021_20171203T144539_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T153821_20171203T154434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T162027_20171203T162426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T171744_20171203T172102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171203T213734_20171203T213940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T021251_20171203T021856_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T085112_20171203T085543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T093956_20171203T094315_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T111400_20171203T111509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T111842_20171203T112323_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T164702_20171203T165226_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T180248_20171203T181117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T213656_20171203T213734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T221746_20171203T222133_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T234332_20171203T234729_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171203T235704_20171204T000017_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

# 5.2 L2 Product Header Analysis

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

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

## 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors: 0

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171203T050254_20171203T051004_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20171203T064557_20171203T065715_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Range Measurement Check

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

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

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

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:

74

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171203T000955_20171203T001433_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

De Corre. Sin Comu 2 do Frazantización por 1920 TESTES, COMU CONTROLLES DE CONTROLLES	CS OFFL SIR IOPM 2 20171203T001512 20171203T003329 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CQ-011_SEQ-004_ZENTEQ-011001_DETECTION_COVER_ CQ-011_SEQ-004_ZENTEQ-011001_DETECTION_COVER_ CQ-011_SEQ-004_ZENTEQ-011001_DETECTION_COVER_ CQ-011_SEQ-004_ZENTEQ-011001_DETECTION_COVER_ CQ-011_SEQ-004_ZENTEQ-011001_DETECTION_COVER_ CQ-011_SEQ-004_ZENTEQ-011001_DETECTION_COVER_ CQ-011_SEQ-004_ZENTEQ-011001_COVER_ CQ-011			
0. COMP. SIMI_COMPLE_SIXTPOINTENDED_COMPLE_S			The Ocean Range Averaging Status Flag has been set for one or more
Court Genu Control Con			The Ocean Range Averaging Status Flag has been set for one or more
CO. CHILLIER (LOPAL) 2017 1001702014 (2017 1001702014 COST)  CO. CHILLIER (LOPAL) 2017 1001702014 (2017 1001702014 COST)  CO. CHILLIER (LOPAL) 2017 1001704 (2017 1001704 COST)  CO. CHILLIER (LOPAL) 2017 1001704 (2017			The Ocean Range Averaging Status Flag has been set for one or more
Dec. OFFILE SECOND 2. 2017 INSTITUTIONS 2011 1000000001 CONTROLL C			The Ice Range Averaging Status Flag has been set for one or more
Court Filiage Averaging States  Court Filiage Averaging States			The Ice Range Averaging Status Flag has been set for one or more
One Person Developer Country C			The Ocean Range Averaging Status Flag has been set for one or more
Co. OPTSROPT2 2117201700072_2117201700002_20170007100000_2010000000000			The Ocean Range Averaging Status Flag has been set for one or more
Description			The Ice Range Averaging Status Flag has been set for one or more
CO. CHEL SRIJONE _20171033T04254_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04254_00171233T0454_0031  CO. CHEL SRIJONE _20171033T04254_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04254_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04254_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04257_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04257_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04257_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04257_00171233T04254_0031  CO. CHEL SRIJONE _20171033T04257_00171233T05454_0031  CO. CHEL SRIJONE _20171033T0441_00171233T15454_0031  CO. CHEL SRIJONE _20171033T0441_00171233T15454_0031  CO. CHEL SRIJONE _20171033T0441_00171233T15454_0031			
CB_CPF_SR_CMS_2017/201140314032_017/20114045_COST  CB_CPF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CPF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CPF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CPF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CPF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CMF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CMF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CMF_SR_CMS_2017/201140314032_017/20114031403_001  CB_CMF_SR_CMS_2017/201140314032_017/201140314032_001  CB_CMF_SR_CMS_2017/201140314032_017/20114031403_001  CB_CMF_SR_CMS_2017/201140314032_017/20114031403_001  CB_CMF_SR_CMS_2017/201140314032_017/20114031403_001  CB_CMF_SR_CMS_2017/201140314032_017/20114031403_001  CB_CMF_SR_CMS_2017/20114031403_001  CB			The Ice Range Averaging Status Flag has been set for one or more
Co. OFFL. SIR. (OFFL. 2 271712011042012 271712			
Co. CRE SRE_COM_2_20171203T04246C0111203T04246C0111  Co. CRE SRE_COM_2_20171203T045024_20171203T045015_C0101  Co. CRE SRE_COM_2_20171203T045024_20171203T045042_C0101  Co. CRE SRE_COM_2_20171203T045042_20171203T045042_C0101  Co. CRE SRE_COM_2_20171203T0441_2017104501_C0101  Co. CRE SRE_COM_2_20171203T04402_20171203T044142_C0101  Co. CRE SRE_COM_2_20171203T04402_20171203T044142_C0101  Co.			The Ocean Range Averaging Status Flag has been set for one or more
CB_OPFL_SRI_OPML_2.0111203T06986_2011203T06948_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T0698_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06982_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06983_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06983_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06983_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06983_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06983_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06986_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06966_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06966_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06966_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06966_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T06966_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T16966_COID  CB_OPFL_SRI_OPML_2.011203T06986_2011203T16966_COID  CB_OPFL_SRI_OPML_2.011203T06966_2011203T16966_COID  CB_OPFL_SRI_OPML_2.0111203T06966_COID  CB_OPFL_SRI_OPML_2.0111203T0696			
CB_OFFL_SIR_IOPM_2_2017/2037060264_201712037056620_C001  CB_OFFL_SIR_IOPM_2_2017/2037066026_201712037056620_C001  CB_OFFL_SIR_IOPM_2_2017/2037066026_201712037056620_C001  CB_OFFL_SIR_IOPM_2_2017/2037066026_201712037056620_C001  CB_OFFL_SIR_IOPM_2_2017/2037066026_201712037056620_C001  CB_OFFL_SIR_IOPM_2_2017/2037066026_201712037056620_C001  CB_OFFL_SIR_IOPM_2_2017/2037066026_2017120370706620_C001  CB_OFFL_SIR_IOPM_2_2017/20370706026_2017120370706020_C001  CB_OFFL_SIR_IOPM_2_2017/20370706026_201712037072404_C001  CB_OFFL_SIR_IOPM_2_2017/20370706026_201712037072404_C001  CB_OFFL_SIR_IOPM_2_2017/20370706026_201712037072404_C001  CB_OFFL_SIR_IOPM_2_2017/20370706026_201712037072404_C001  CB_OFFL_SIR_IOPM_2_2017/2037060026_20171203706002_C001  CB_OFFL_SIR_IOPM_2_2017/2037060026_201712037120020_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371200002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371300002_C001  CB_OFFL_SIR_IOPM_2_2017/20371000026_2017120371300002_C001  CB_OFFL_SIR_IOPM_2_2017/2037130002_C001  CB_OFFL_SIR_IOPM_2_2017/20371300002_C001  CB_OFFL_SIR_			
CB_OFFL_SIR_LOPM_2_20171203706492_0010  CB_OFFL_SIR_LOPM_2_20171203716492_0010  CB_OFFL_SIR_LOPM_2_201712037164402_0010  CB_OFFL_SIR_LOPM_2_201712037164402_0010  CB_OFFL_SIR_LOPM_2_201712037164402_0010  CB_OFFL_SIR_LOPM_2_201712037164402_00171203716492_0010  CB_OFFL_SIR_LOPM_2_201712037164402_001010644000  CB_OFFL_SIR_LOPM_2_201712037164400000000000000000000000000			
SCOPEL_SIR_LOPM_2_20171203106459_201712031106459_0010 to Range Averaging Status Flag has been set for one or more CS_OFEL_SIR_LOPM_2_20171203106459_201712031106175_0010 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203106459_201712031006175_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203106459_201712031006175_0010 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203107272_20171203107315_0010 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_2017120310727_20171203107315_0010 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_201712031073073_20171203106512_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203106307_20171203106512_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203106322_0171203106512_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203106322_0171203106512_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203106323_01712031106320_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203110633_010645_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203110632_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203110632_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203110632_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203110632_0011 Crean Range Averaging Status Flag has been set for one or more records.  CS_OFEL_SIR_LOPM_2_20171203110632_0011 Crean Range Averaging Status Flag has been set for one			records.
SCOPPL_SR_IOPN_2_201712037004969_201712037065716_0001 CS_OFFL_SR_IOPN_2_201712037004969_201712037065716_0001 CS_OFFL_SR_IOPN_2_20171203700492_20171203707311_0001 CS_OFFL_SR_IOPN_2_20171203707049_20171203707311_0001 CS_OFFL_SR_IOPN_2_20171203707049_20171203707640_0001 CS_OFFL_SR_IOPN_2_20171203707040_20171203707640_0001 CS_OFFL_SR_IOPN_2_20171203707040_20171203707640_0001 CS_OFFL_SR_IOPN_2_20171203707040_20171203707640_0001 CS_OFFL_SR_IOPN_2_20171203707040_20171203707640_0001 CS_OFFL_SR_IOPN_2_20171203706400_001712037065716_0001 CS_OFFL_SR_IOPN_2_20171203706400_001712037065716_0001 CS_OFFL_SR_IOPN_2_20171203706400_00171203706400_001 CS_OFFL_SR_IOPN_2_20171203706400_00171203706400_001 CS_OFFL_SR_IOPN_2_20171203706400_00171203716010000 CS_OFFL_SR_IOPN_2_20171203706400_00171203716010000 CS_OFFL_SR_IOPN_2_20171203706400_00171203716010000 CS_OFFL_SR_IOPN_2_20171203706400_001 CS_OFFL_SR_IOPN_2			records.
CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T070343_C001  CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T0707343_C001  CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T0707343_C001  CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T0707343_C001  CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T0707074_C001  CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T0707074_C001  CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T070840_C001  CS_OFFL_SIR_IOPM_2_20171203T082037_20171203T080929_C001  CS_OFFL_SIR_IOPM_2_20171203T082037_20171203T080929_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T080402_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T080402_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00117203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T104040_C001  CS_OFFL_SIR_IOPM_2_20171203T104040_00171203T10			
CS_OFFL_SIT_OPM_2_2017120310707249_201712031073133_0001  CS_OFFL_SIR_IOPM_2_2017120310707249_201712031073133_0001  CS_OFFL_SIR_IOPM_2_2017120310707249_201712031075549_0001  CS_OFFL_SIR_IOPM_2_2017120310707249_201712031050559_0001  CS_OFFL_SIR_IOPM_2_20171203106057_20171203106059_0001  CS_OFFL_SIR_IOPM_2_20171203106057_20171203106059_0001  CS_OFFL_SIR_IOPM_2_20171203106059_201712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_001712031060519_0001  CS_OFFL_SIR_IOPM_2_20171203106059_00171203106019_0001  CS_OFFL_SIR_IOPM_2_20171203106059_00171203106019_0001  CS_OFFL_SIR_IOPM_2_20171203106059_00171203106019_0001  CS_OFFL_SIR_IOPM_2_20171203110609_001712031106019_0001  CS_OFFL_SIR_IOPM_2_20171203110609_000171203110609_00171203110609_00171203110			
CS_OFFL_SR_IOPM_2_20171203107629_01712031076431_0001  Ocean Range Averaging Status  Filip Range Averaging Status Flag has been set for one or more corons.  CS_OFFL_SR_IOPM_2_20171203108202_0171203108522_0001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  CS_OFFL_SR_IOPM_2_201712031084020_20171203109125_C001  Ocean Range Averaging Status  CS_OFFL_SR_IOPM_2_201712031094056_20171203109125_C001  Ocean Range Averaging Status  CS_OFFL_SR_IOPM_2_201712031094056_201712031109125_C001  Ocean Range Averaging Status  CS_OFFL_SR_IOPM_2_201712031094056_201712031109125_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more corons.  CS_OFFL_SR_IOPM_2_201712031094056_201712031109125_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more corons.  CS_OFFL_SR_IOPM_2_20171203110931_201712031109125_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more corons.  CS_OFFL_SR_IOPM_2_201712031110931_2017120311095_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more corons.  CS_OFFL_SR_IOPM_2_20171203113093_20171203113095_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or more corons.  The Cocan Range Averaging Status Flag has been set for one or			records.
CS_OFFL_SIR_JOPM_2_201712031708207_2017120317083032_C001  CS_OFFL_SIR_JOPM_2_201712031708207_2017120317083032_C001  CS_OFFL_SIR_JOPM_2_201712031708207_201712031080302_C001  CS_OFFL_SIR_JOPM_2_201712031708207_20171203100500_C001  CS_OFFL_SIR_JOPM_2_201712031708020_20171203100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_20171203100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_20171203100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_20171203100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_20171203100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_201712031100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_201712031100500_C001  CS_OFFL_SIR_JOPM_2_2017120317080820_201712031100500_C001  CS_OFFL_SIR_JOPM_2_201712031708031_201712031100500_C001  CS_OFFL_SIR_JOPM_2_201712031708031_201712031100500_C001  CS_OFFL_SIR_JOPM_2_201712031708032_201712031100500_C001  CS_OFFL_SIR_JOPM_2_201712031708032_201712031100500_C001  CS_OFFL_SIR_JOPM_2_201712031708032_20171203113000_C001  CS_OFFL_SIR_JOPM_2_201712031708032_20171203113000_C001  CS_OFFL_SIR_JOPM_2_20171203173000_201712031313000_C001  CS_OFFL_SIR_JOPM_2_20171203173000_201712031313000_C001  CS_OFFL_SIR_JOPM_2_20171203173000_20171203113000_C001  CS_OFFL_SIR_JOPM_2_20171203113000_20171203113000_C001  CS_OFFL_SIR_JOPM_2_20171203			records.
CS_OFFL_SIR_JOPM_2_201712037082092_201712037083092_2001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_JOPM_2_201712037086927_201712037085050_C001  CS_OFFL_SIR_JOPM_2_201712037086927_20171203709525_C001  Ocean Range Averaging Status  CS_OFFL_SIR_JOPM_2_20171203709645_20171203709525_C001  Ocean Range Averaging Status  CS_OFFL_SIR_JOPM_2_201712037096326_201712037109120_C001  Ocean Range Averaging Status  CS_OFFL_SIR_JOPM_2_201712037109331_201712037109120_C001  Ocean Range Averaging Status  CS_OFFL_SIR_JOPM_2_201712037109320_201712037109120_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Oce			records.
CS_OFFL_SIR_IOPM_2_2017/2037068029_2017/2037090509_C001  CS_OFFL_SIR_IOPM_2_2017/2037068029_2017/2037090509_C001  CS_OFFL_SIR_IOPM_2_2017/2037068029_2017/2037090509_C001  CS_OFFL_SIR_IOPM_2_2017/2037068029_2017/2037090509_C001  CS_OFFL_SIR_IOPM_2_2017/2037068029_2017/2037090509_C001  CS_OFFL_SIR_IOPM_2_2017/2037068029_2017/2037090509_C001  CS_OFFL_SIR_IOPM_2_2017/2037068039_2017/2037103129_C001  CS_OFFL_SIR_IOPM_2_2017/2037068039_2017/2037103129_C001  CS_OFFL_SIR_IOPM_2_2017/20371038031_2017/2037104343_C001  CS_OFFL_SIR_IOPM_2_2017/20371030301_2017/2037104902  CS_OFFL_SIR_IOPM_2_2017/2037103030_2017/203710510_C001  CS_OFFL_SIR_IOPM_2_2017/20371030_2017/203710510_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037133420_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037133420_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037133420_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037133420_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037133420_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037133420_C001  CS_OFFL_SIR_IOPM_2_2017/2037133247_2017/2037134445_C001  CS_OFFL_SIR_IOPM_2_2017/20371332482_C001  CS_OFFL_SIR_IOPM_2_2017/20371332482_C001  CS_OFFL_SIR_IOPM_2_2017/20371332482_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/20371332492_C001  CS_OFFL_SIR_IOPM_2_2017/203713334932_C001  CS_OFFL_SIR_IOPM_2_2017/203713334932_C001  CS_OFFL_SIR_IOPM_2_2017/203713334932_C001  CS_OFFL_SIR_IOPM_2_2017/203713334932_C001  CS_OFFL_SIR_IOPM_2_2017/203713334932_C001  CS_OFFL_SIR_IOPM_2_2017/203713334932_C001  CS_OFFL_SIR_IOPM_2_2017/20371333493_C001  CS_OFFL_SIR_IOPM_2_2017/20371333493_C001  CS_OFFL_SIR_IOPM_2_2017/20371333493_C001  CS_OFFL_SIR_IOPM_2_2017/2037153349_2017/203713532_C001  CS_OFFL_SIR_IOPM_2_2017/2037153349_2017/203713532_C001  CS_OFFL_SIR_IOPM_2_2017/2037153349_2017/203713532_C001			records.
CS_OFFL_SIR_IOPM_2_20171203T069027_20171203T090590_C001  CS_OFFL_SIR_IOPM_2_20171203T069036_20171203T090526_C001  CS_OFFL_SIR_IOPM_2_20171203T069036_20171203T091251_C001  CS_OFFL_SIR_IOPM_2_20171203T069036_20171203T091251_C001  CS_OFFL_SIR_IOPM_2_20171203T069036_20171203T109129_C001  CS_OFFL_SIR_IOPM_2_20171203T069036_20171203T109129_C001  CS_OFFL_SIR_IOPM_2_20171203T069036_20171203T109129_C001  CS_OFFL_SIR_IOPM_2_20171203T109331_2017033129_C001  CS_OFFL_SIR_IOPM_2_20171203T109331_20171203T10919_C001  CS_OFFL_SIR_IOPM_2_20171203T10920_20171203T10919_C001  CS_OFFL_SIR_IOPM_2_20171203T130929_C0017203T10919_C001  CS_OFFL_SIR_IOPM_2_20171203T130929_C0017203T1309106_C001  CS_OFFL_SIR_IOPM_2_20171203T1309107203T1309106_C001  CS_OFFL_SIR_IOPM_2_20171203T130949_C0017203T130909_C001  CS_OFFL_SIR_IOPM_2_20171203T130949_C0017203T130909_C001  CS_OFFL_SIR_IOPM_2_20171203T130949_C0017203T130909_C001  CS_OFFL_SIR_IOPM_2_20171203T130949_C001  CS_OFFL_SIR_IOPM_2_20171203T140309_20171003T130949_C001  CS_OFFL_SIR_IOPM_2_20171203T140309_20171203T15090_C001  CS_OFFL_SIR_IOPM_2_20171203T140309_20171203T15090_C001  CS_OFFL_SIR_IOPM_2_20171203T140309_20171203T15090_C001  CS_OFFL_SIR_IOPM_2_20171203T140309_20171203T15090_C001  CS_OFFL_SIR_IOPM_2_20171203T140309_20171203T15090_C001  CS_OFFL_SIR_IOPM_2_20171203T1503490_C001  CS_OFFL_SIR_IOPM_2_20171203T1503490_C001  CS_OFFL_SIR_IOPM_2_20171203T1503490_C001  CS_OFFL_SIR_IOPM_2_20171203T150319319000_C001  CS_OFFL_SIR_IOPM_2_20171203T1503190000000000000000000000000000000000			records.
CS_OFFL_SIR_IOPM_2_20171203T090846_20171203T09129_C001  Cean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20171203T095836_20171203T103129_C001  CS_OFFL_SIR_IOPM_2_20171203T103321_20171203T10329_C001  CS_OFFL_SIR_IOPM_2_20171203T103321_20171203T10420_20171203T1042			
CS_OFFL_SIR_IOPM_2_20171203T094512_C001  CS_OFFL_SIR_IOPM_2_20171203T104532_C001  CS_OFFL_SIR_IOPM_2_20171203T104533_20171203T104534_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104502_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104504_C001  CS_OFFL_SIR_IOPM_2_20171203T104500_C00171203T104500_C001  CS_OFFL_SIR_IOPM_2_20171203T104500_C00171203T104500_C001  CS_OFFL_SIR_IOPM_2_20171203T104500_C00171203T104500_C001  CS_OFFL_SIR_IOPM_2_20171203T10000_C00171203T10000000000000000000000000000000000			
CS_OFFL_SIR_IOPM_2_20171203T103120_2001  Cean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more excords.  Range Averaging Status Flag has been set for one or more excords.  Range Averaging Status Flag has been set for one or more excords.  Range Averaging Status Flag has been set for one or more excords.  Range Averaging Status Flag has been set for one or more excords.  Range Averaging Status Flag has been set for one or more excords.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status Flag has been set for one or more records.  Range Averaging Status			records.
CS_OFF_SIR_IOPM_2_201712037110430_201712037110434_C001  CS_OFF_SIR_IOPM_2_20171203710430_201712037110519_C001  CS_OFF_SIR_IOPM_2_201712037113629_20171203711205_C001  CS_OFF_SIR_IOPM_2_201712037113629_20171203711205_C001  CS_OFF_SIR_IOPM_2_201712037113629_20171203711205_C001  CS_OFF_SIR_IOPM_2_20171203713609_201712037130106_C001  CS_OFF_SIR_IOPM_2_20171203713609_20171203713000_C001  CS_OFF_SIR_IOPM_2_201712037133247_201712037133429_C001  CS_OFF_SIR_IOPM_2_201712037133455_201712037134945_C001  CS_OFF_SIR_IOPM_2_201712037133455_201712037134945_C001  CS_OFF_SIR_IOPM_2_201712037134945_C001  CS_OFF_SIR_IOPM_2_201712037134094_201712037134200_C001  CS_OFF_SIR_IOPM_2_201712037134094_201712037134200_C001  CS_OFF_SIR_IOPM_2_20171203714094_201712037142000_C001  CS_OFF_SIR_IOPM_2_20171203714094_201712037144000_C001  CS_OFF_SIR_IOPM_2_201712037140037144000_C001  CS_OFF_SIR_IOPM_2_201712037140037144000_C001  CS_OFF_SIR_IOPM_2_201712037140037140000_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037152047_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037152047_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037152047_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037152047_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037152047_C001  CS_OFF_SIR_IOPM_2_201712037154092_0017120371552047_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037152040_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037154000_C001  CS_OFF_SIR_IOPM_2_201712037154092_001712037154000_C001  CS_OFF_SIR_IOPM_2_201712037154000_C001  CS_OFF_SIR_IOPM_2_2017120371			
CS_OFFL_SIR_IOPM_2_2017120371104920_20171203711059_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_201712037113629_20171203711205_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_201712037113629_2017120371130106_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_201712037113609_201712037137300_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_201712037133247_201712037133249_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_201712037133247_201712037133495_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_201712037133245_201712037133495_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_201712037133245_201712037134945_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203714203714206_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_201712037154032_20171203715207_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_201712037154032_201712037155207_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averagi			records.
CS_OFFL_SIR_IOPM_2_20171203T113629_20171203T1205C_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Fl			records.
CS_OFFL_SIR_IOPM_2_20171203T132047_20171203T132047_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status F			records.
CS_OFFL_SIR_IOPM_2_20171203T13509_20171203T13509_2001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Fla			records.
CS_OFFL_SIR_IOPM_2_20171203T133247_20171203T133429_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T142300_20171203T144020_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20171203T154037_20171203T151207_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T15409_20171203T15249_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T15409_20171203T153829_C001  ICE Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T16439_20171203T154732_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T16526_20171203T16532_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171559_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag h			records.
CS_OFFL_SIR_IOPM_2_20171203T133247_20171203T133495_C001  CS_OFFL_SIR_IOPM_2_20171203T133455_20171203T134945_C001  CS_OFFL_SIR_IOPM_2_20171203T135208_20171203T135729_C001  Loe Range Averaging Status  Loe Can Range Averaging Status			records.
CS_OFFL_SIR_IOPM_2_20171203T135208_20171203T135729_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T14200_20171203T15207_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one 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			records.
CS_OFFL_SIR_IOPM_2_20171203T140842_20171203T144020_C001  CS_OFFL_SIR_IOPM_2_20171203T140842_20171203T144020_C001  CS_OFFL_SIR_IOPM_2_20171203T140300_20171203T144020_C001  CS_OFFL_SIR_IOPM_2_20171203T150237_20171203T151207_C001  CS_OFFL_SIR_IOPM_2_20171203T150237_20171203T151207_C001  CS_OFFL_SIR_IOPM_2_20171203T151409_20171203T152849_C001  CS_OFFL_SIR_IOPM_2_20171203T15134_20171203T153629_C001  CS_OFFL_SIR_IOPM_2_20171203T153134_20171203T153629_C001  CS_OFFL_SIR_IOPM_2_20171203T15023T154732_C001  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T16526_20171203T16732_C001  CS_OFFL_SIR_IOPM_2_20171203T16526_20171203T17556_C001  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T17556_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T17203T182158_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T17203T182158_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T17203T18256_C001  CS_OFFL_SIR_IOPM_2_20171203T17203T185500_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T17203T185500_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T17203T182158_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184536_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184536_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T18455500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T18455500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T1855500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T1855500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T1855500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T1855500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T1855500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T1855500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_201			records.
CS_OFFL_SIR_IOPM_2_20171203T14230_20171203T144020_C001  CS_OFFL_SIR_IOPM_2_20171203T150237_20171203T151207_C001  CS_OFFL_SIR_IOPM_2_20171203T1510237_20171203T151207_C001  CS_OFFL_SIR_IOPM_2_20171203T151409_20171203T152849_C001  CS_OFFL_SIR_IOPM_2_20171203T151409_20171203T152849_C001  CS_OFFL_SIR_IOPM_2_20171203T153134_20171203T153629_C001  CS_OFFL_SIR_IOPM_2_20171203T153134_20171203T153629_C001  CS_OFFL_SIR_IOPM_2_20171203T154439_20171203T154732_C001  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T17556_C001  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T17556_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185506_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185506_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185500_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20			records.
CS_OFFL_SIR_IOPM_2_20171203T150237_20171203T151207_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging			records.
CS_OFFL_SIR_IOPM_2_20171203T151409_20171203T152849_C001  Ocean Range Averaging Status  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 Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T154439_20171203T154732_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The			records.
CS_OFFL_SIR_IOPM_2_20171203T153134_20171203T153629_C001  Ice Range Averaging Status  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.  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001  CS_OFFL_SIR_IOPM_2_20171203T171203T171556_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_201712			records.
CS_OFFL_SIR_IOPM_2_20171203T154732_C001  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T160233_20171203T161532_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T170730_C001  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SI			records.
CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T161532_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T1850510_C00		Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171203T165226_20171203T17556_C001  CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001			records.
CS_OFFL_SIR_IOPM_2_20171203T18508_20171203T18556_C001  Ice Range Averaging Status  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185036_20171203T185036_20171203T185036_20171203T185036_20171203T185036_20171203T185036_20171203			records.
CS_OFFL_SIR_IOPM_2_20171203T171356_C001  CS_OFFL_SIR_IOPM_2_20171203T172256_20171203T174539_C001  CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001			records.
CS_OFFL_SIR_IOPM_2_20171203T18258_20171203T184639_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185006_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001	CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001  CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185510_C001  CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_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 or more records.		Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001		Ocean Range Averaging Status	records.
US OFFI SIR IOPM 2 2017/12031/85500 2017/12031/85510 C001 IICE RANGE AVERAGING STATUS		Ice Range Averaging Status	records.
· · · · · · · · · · · · · · · · · · ·	CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001	Ice Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20171203T185516_20171203T185841_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T190236_20171203T191312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T191847_20171203T192842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T193037_20171203T193329_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T200033_20171203T202545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T202929_20171203T203410_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T204309_20171203T211536_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T212808_20171203T213050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T220914_20171203T221436_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T222133_20171203T224246_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T224533_20171203T225606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T230700_20171203T231048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T232648_20171203T233137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T233325_20171203T234332_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171203T062832_20171203T062900_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171203T112608_20171203T112704_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171203T185510_20171203T185516_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171203T193330_20171203T193940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171203T235335_20171203T235703_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171203T004942_20171203T005155_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171203T062643_20171203T062714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171203T132807_20171203T133247_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

### 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 75

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171203T000955_20171203T001433_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_20171203T001512_20171203T003329_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_20171203T005155_20171203T012702_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_20171203T014011_20171203T015852_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_20171203T015935_20171203T021251_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_20171203T022131_20171203T022329_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T022456_20171203T022831_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T023051_20171203T024554_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_20171203T024756_20171203T025718_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_20171203T031527_20171203T031701_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T031927_20171203T033636_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_20171203T035951_20171203T040254_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T040259_20171203T040733_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T041034_20171203T042424_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_20171203T042451_20171203T042456_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_20171203T045956_20171203T050131_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_20171203T050254_20171203T051004_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_20171203T051045_20171203T053430_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_20171203T053804_20171203T054021_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T054024_20171203T054629_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T054958_20171203T061456_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_20171203T064557_20171203T065715_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T070249_20171203T071313_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T072927_20171203T075540_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T082037_20171203T083628_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T084020_20171203T085112_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20171203T085927_20171203T090509_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T094411_20171203T094526_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_20171203T095836_20171203T103129_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_20171203T103831_20171203T104343_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T104920_20171203T110519_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_20171203T113629_20171203T121025_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_20171203T121837_20171203T122250_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T122744_20171203T130106_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T131609_20171203T132807_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T133247_20171203T133429_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T133455_20171203T134945_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171203T135208_20171203T135729_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171203T135748_20171203T135955_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T140842_20171203T142106_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20171203T142300_20171203T144020_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_20171203T150237_20171203T151207_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_20171203T151409_20171203T152849_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_20171203T153134_20171203T153629_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T154439_20171203T154732_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_20171203T160233_20171203T161532_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_20171203T165226_20171203T170730_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T171116_20171203T171556_C001	Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20171203T172256 20171203T174539 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20171203T174541 20171203T175652 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T182158_20171203T184639_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171203T185036_20171203T185456_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171203T185500_20171203T185510_C001	Ice Backscatter Averaging Status	records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171203T185516_20171203T185841_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records.
CS_OFFL_SIR_IOPM_2_20171203T190236_20171203T191312_C001	Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T191847_20171203T192842_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_20171203T193037_20171203T193329_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_20171203T200033_20171203T202545_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_20171203T202929_20171203T203410_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T204309_20171203T211536_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_20171203T215953_20171203T220222_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_20171203T220914_20171203T221436_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171203T222133_20171203T224246_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T224533_20171203T225606_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T230700_20171203T231048_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T232648_20171203T233137_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171203T233325_20171203T234332_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20171203T062832_20171203T062900_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPN_2_20171203T112608_20171203T112704_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_20171203T185510_20171203T185516_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171203T193330_20171203T193940_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_20171203T235335_20171203T235703_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\_20171203T004942\_20171203T005155\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status

CS\_OFFL\_SIR\_IOPR\_2\_20171203T062643\_20171203T062714\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status

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

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

#### 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:

0

#### 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:

0

#### 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:

0

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171203T045155_20171203T054130_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220171203T063108_20171203T072043_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Range Measurement Check

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

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

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

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

Number of products with errors:

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

CS_OFFL_SIR_IOP_220171203T171605_20171203T180543_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_220171203T180543_20171203T185519_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_220171203T185519_20171203T194457_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T194457_20171203T203432_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_220171203T203432_20171203T212410_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T212410_20171203T221346_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_220171203T221346_20171203T230324_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T230324_20171203T235259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Number of products with errors:

27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171202T235414_20171203T004349_C003	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171203T004349_20171203T013327_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_220171203T013327_20171203T022302_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_220171203T022302_20171203T031241_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220171203T031241_20171203T040216_C001	Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220171203T040216_20171203T045155_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T045155_20171203T054130_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.
CS_OFFL_SIR_IOP_220171203T054130_20171203T063108_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T063108_20171203T072043_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
CS_OFFL_SIR_IOP_220171203T072043_20171203T081022_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T081022_20171203T085957_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
CS_OFFL_SIR_IOP_220171203T085957_20171203T094935_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for o or more records.
CS_OFFL_SIR_IOP_220171203T103911_20171203T112849_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for o or more records.
CS_OFFL_SIR_IOP_220171203T112849_20171203T121824_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for o or more records.
CS_OFFL_SIR_IOP_220171203T121824_20171203T130803_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for o or more records.
CS_OFFL_SIR_IOP_220171203T130803_20171203T135738_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for o or more records.
CS_OFFL_SIR_IOP_220171203T135738_20171203T144716_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for cor more records.
CS_OFFL_SIR_IOP_220171203T144716_20171203T153651_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T153651_20171203T162630_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T171605_20171203T180543_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T180543_20171203T185519_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T185519_20171203T194457_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.
CS_OFFL_SIR_IOP_220171203T194457_20171203T203432_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for or more records.
CS_OFFL_SIR_IOP_220171203T203432_20171203T212410_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one omore records.
CS_OFFL_SIR_IOP_220171203T212410_20171203T221346_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for cor more records.
CS_OFFL_SIR_IOP_220171203T221346_20171203T230324_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.
CS_OFFL_SIR_IOP_220171203T230324_20171203T235259_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one of more records.

# 6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors:

26

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171202T235414_20171203T004349_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T004349_20171203T013327_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T013327_20171203T022302_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T022302_20171203T031241_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T031241_20171203T040216_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T040216_20171203T045155_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T045155_20171203T054130_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T054130_20171203T063108_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T063108_20171203T072043_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T072043_20171203T081022_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T081022_20171203T085957_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T085957_20171203T094935_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T112849_20171203T121824_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T121824_20171203T130803_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T130803_20171203T135738_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T135738_20171203T144716_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T144716_20171203T153651_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T153651_20171203T162630_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T171605_20171203T180543_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T180543_20171203T185519_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T185519_20171203T194457_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T194457_20171203T203432_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T203432_20171203T212410_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T212410_20171203T221346_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T221346_20171203T230324_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171203T230324_20171203T235259_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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