



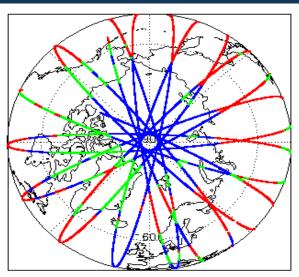
## 1. Overview

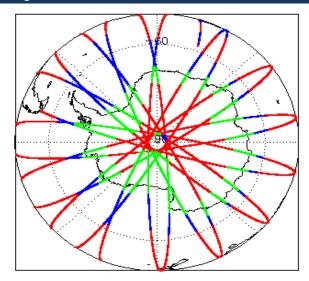
Report Production:	02-Jul-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

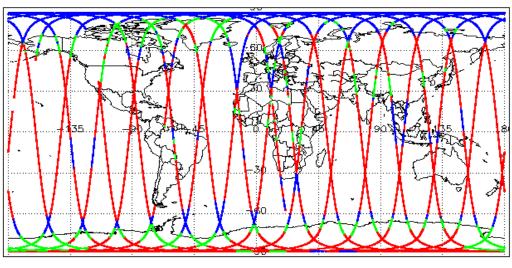
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	See Section 5.2	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

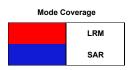
Mission / Instru	ment News
26-Jun-2018	None
27-Jun-2018	None
28-Jun-2018	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

Number of products with errors:

0

## 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Ω

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180627T234408_20180627T234635_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T021414_20180627T021818_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T035036_20180627T035206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T041059_20180627T041132_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T053028_20180627T053325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T053416_20180627T053628_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T153524_20180627T154002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T171427_20180627T171536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180627T185344_20180627T185934_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T002601_20180627T002801_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T012227_20180627T012447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T045241_20180627T045737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T202737_20180627T202832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T202906_20180627T203354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T233350_20180627T233428_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180627T234650_20180627T235447_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_IOPR_2_20180627T105034_20180627T105039_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

## 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

## 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.

Comparing   Comparing   State   Comparing	Product	Test Failed	Description
COURTS ARE LOWER 2 SENDOTTENDAY 2 DESIGNATIONS AND SENDOTTENDA	CS_OFFL_SIR_IOPM_2_20180627T000220_20180627T000459_C001	Ocean Range Averaging Status	
Co. CHI. J. BR. COM. 2. CONSIDER TOWARD 2 CONSIDER TOWARD CONSIDER TO COME TO SERVICE AND ADMINISTRATION OF THE COME TOWARD CONSIDER TOWARD CO	CS_OFFL_SIR_IOPM_2_20180627T003306_20180627T003701_C001	Ocean Range Averaging Status	
Care Cheese (1994) 2. 201600277101022 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 201600277101020 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 201600277101020 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 201600277101030 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 201600277101030 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (1994) 2. 20160027710330 (2016) Control Response Average States.  Deep 1. Sep (	CS_OFFL_SIR_IOPM_2_20180627T004728_20180627T005827_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
De Der La Brill Der La 200000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180627T010112_20180627T012227_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
COUNTLY SET, COMPA 2, 20180000710190809 201800071019080 CODE  COUNTLY SET, COMPA 2, 2018000071019080 20180071019080 CODE  COUNTLY SET, COMPA 2, 2018000071019080 20180071019080 CODE  COUNTLY SET, COMPA 2, 201800071019080 CODE  COUNTLY SET, COMPA 2, 20180007119080 CODE  COUNTLY SET, CO	CS OFFL SIR IOPM 2 20180627T012902 20180627T013023 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
Co. CPTE_SRI_OMS_2.0100027191543_0100227101540_C010			
CO.OFT SR., DOW. 2. 2019027701933 2.0006277101935 2.001  CO.OFT SR., DOW. 2. 20190227701933 2.0006277101930 2.001  CO.OFT SR., DOW. 2. 20190227701933 2.0006277101930 2.001  CO.OFT SR., DOW. 2. 20190227701930 2.0006277101930 2.001  CO.OFT SR., DOW. 2. 20190227701930 2.0006277101930 2.001  CO.OFT SR., DOW. 2. 20190227701930 2.001  CO.OFT SR., DOW. 2. 201902277			
DO JOHN SIMILORNA _ 201600277100303_10 10000277003012_C001  COLORED SIMILORNA _ 201600277003032_C001  COLORED SIMILORNA _ 2016002771003022_D0000277003032_C001  COLORED SIMILORNA _ 201600277100302_D000277003032_C001  COLORED SIMILORNA _ 201600277003032_D000277003032_C001  COLORED SIMILORNA _ 201600277003032_D0			
Gorden   Set   Company   2016/00077003020, 2016/00077003020, Company   2016/0007			
Comp. Str. (DML 2 201006277000912 201000277000912 C0010 tel Range Averaging Status.  The los Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277000912 201000277000912 C0010 tel Range Averaging Status.  The los Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277000912 201000277000912 C0010 tel Range Averaging Status.  The Comp. Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277000912 201000277000912 C0010 tel Range Averaging Status.  The Comp. Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277000912 201000277000912 C0010 tel Range Averaging Status.  The Comp. Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277001912 201000277000912 C0010 tel Range Averaging Status.  The Comp. Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277001912 201000277000912 C0010 tel Range Averaging Status.  The Comp. Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277001912 201000277000912 C0010 tel Range Averaging Status.  The Comp. Range Averaging Status fraights been set for one or more records.  Comp. Str. (DML 2 201006277001912 201000277000910 C0010 C0			records.
SCOPEL_SIR_IOPM_2_S0180277000382_20180277003035_C001  See Rarge Averaging Status  Fine Song Rarge Averaging			records.
SCOPPL, SRI, OPM 2_01906277030292_01900277030292_01	CS_OFFL_SIR_IOPM_2_20180627T030401_20180627T030921_C001	Ice Range Averaging Status	records.
SCOPPL_SIT_OPM_2_201800277103502_0018027103500_001  SCOPPL_SIT_OPM_2_20180027703502_00180277103500_001  SCOPPL_SIT_OPM_2_20180027703502_00180277103500_001  SCOPPL_SIT_OPM_2_20180027704113_0018027103500_001  SCOPPL_SIT_OPM_2_20180027704113_0018027103500_001  SCOPPL_SIT_OPM_2_20180027704113_0018027103500_001  SCOPPL_SIT_OPM_2_20180027704013_0018027103500_001  SCOPPL_SIT_OPM_2_20180027704013000_00180010018_001  SCOPPL_SIT_OPM_2_20180027704013000_0018001001001001001001001001001001001001	CS_OFFL_SIR_IOPM_2_20180627T030928_20180627T030934_C001	Ice Range Averaging Status	records.
CS_OFF_SIN_OPM_2_0100027100500_0100500_0100500_01001  CS_OFF_SIN_OPM_2_0100027100500_01001007100500_01001  CS_OFF_SIN_OPM_2_01000271004132_0100027104003_0001  CS_OFF_SIN_OPM_2_0100027104132_0100027104000_01001  CS_OFF_SIN_OPM_2_01000271004132_0100027104000_01001  CS_OFF_SIN_OPM_2_01000271004000_0100100000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180627T030941_20180627T031223_C001	Ice Range Averaging Status	records.
SCOPPL_SIR_JOPM2_201808277104518_201809277104439_0001 CS_OPPL_SIR_JOPM2_201808277044518_201809277044439_0001 CS_OPPL_SIR_JOPM2_201808277044518_201809277044439_0001 CS_OPPL_SIR_JOPM2_201808277044518_201809277044439_0001 CS_OPPL_SIR_JOPM2_201808277044518_201809277044439_0001 CS_OPPL_SIR_JOPM2_201808277044518_20180927704439_0001 CS_OPPL_SIR_JOPM2_20180827704518_20180927704438_0001 CS_OPPL_SIR_JOPM2_20180827704518_20180927704538_0001 CS_OPPL_SIR_JOPM2_20180827706018_20180927705053_0001 CS_OPPL_SIR_JOPM2_20180827706232_20180927706239_0001 CS_OPPL_SIR_JOPM2_20180827706232_20180927706239_0001 CS_OPPL_SIR_JOPM2_20180827706232_20180927706239_0001 CS_OPPL_SIR_JOPM2_20180827706232_20180927706238_0001 CS_OPPL_SIR_JOPM2_20180827706238_20180927706238_0001 CS_OPPL_SIR_JOPM2_20180827706238_20180927706238_0001 CS_OPPL_SIR_JOPM2_20180827706238_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180827706238_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180027706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_20180927706398_20180927706398_0001 CS_OPPL_SIR_JOPM2_201809277106398_20180927706398_0001 CS_OPPL_SIR_JOPM2_201809277106398_201809277106398_0001 CS_OPPL_SIR_JOPM2_201809277106398_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106398_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106398_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106398_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_0001 CS_OPPL_SIR_JOPM2_201809277106498_201809277106400_00	CS_OFFL_SIR_IOPM_2_20180627T032023_20180627T033255_C001	Ocean Range Averaging Status	records.
SCOPPL_SIR_OPML_2_0150627104313_0100627104039_C001  CS_OPPL_SIR_OPML2_0150627104313_0100627104039_C001  CS_OPPL_SIR_OPML2_0150627104313_0100627104039_C001  CS_OPPL_SIR_OPML2_0150627104313_0100627104039_C001  CS_OPPL_SIR_OPML2_0150627104313_0100627104039_C001  CS_OPPL_SIR_OPML2_0150627104313_01006271060801_C001  CS_OPPL_SIR_OPML2_0150627106403_01006271060801_C001  CS_OPPL_SIR_OPML2_0150627106403_01006271060801_C001  CS_OPPL_SIR_OPML2_0150627106403_0100627106403_0010  CS_OPPL_SIR_OPML2_0150627106403_0100627106403_0010  CS_OPPL_SIR_OPML2_0150627106403_010062710640403_0010  CS_OPPL_SIR_OPML2_0150627106403_010062710640403_0010  CS_OPPL_SIR_OPML2_0150627106403_010062710640403_0010  CS_OPPL_SIR_OPML2_0150627106403_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_01506271066503_010062710640403_0010  CS_OPPL_SIR_OPML2_0150627106403_010062710640403_0010  CS_OPPL_SIR_OPML2_0150627106403_010062710640403_0010  CS_OPPL_SIR_OPML2_0150627106403_0100627106403_0010  CS_OPPL_SIR_OPML2_0150627106403_0106627106403_0010  CS_OPPL_SIR_OPML2_0150627106403_0106627106403_0010  CS_OPPL_SIR_OPML2_0150627106403_0106627106403_0010  CS_OPPL_SIR_OPML2_01506271106403_0106627106403_0010010  CS_OPPL_SIR_OPML2_01506271106403_0106627106403_00100100100100100100100100100100100	CS_OFFL_SIR_IOPM_2_20180627T033258_20180627T035030_C001	Ocean Range Averaging Status	
Ocean Range Averaging Status  CS_OFFL_SIR_(OPM_2_201806277104319_201806277104303_2018  CS_OFFL_SIR_(OPM_2_201806277104319_201806277103630_2001  CS_OFFL_SIR_(OPM_2_201806277061242_20180627706230_2001  CS_OFFL_SIR_(OPM_2_201806277061242_201806277060230_2001  CS_OFFL_SIR_(OPM_2_201806277061242_201806277060230_2001  CS_OFFL_SIR_(OPM_2_201806277061242_201806277060230_2001  CS_OFFL_SIR_(OPM_2_201806277061242_20180627706030_2001  CS_OFFL_SIR_(OPM_2_201806277061242_201806277062910_2001  CS_OFFL_SIR_(OPM_2_201806277062923_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706293_201806277062910_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706393_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706393_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706393_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706393_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706393_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706393_2001  CS_OFFL_SIR_(OPM_2_20180627706393_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_2018062706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_20180627706493_20180627706493_2001  CS_OFFL_SIR_(OPM_2_201806277106493_2001001  CS_OFFL_SIR_(OPM_2_201806277106493_2001  CS_OFFL_SIR_(OPM_2_201806277106493_20	CS_OFFL_SIR_IOPM_2_20180627T035206_20180627T035620_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180627104548_20180627104590_C001  CS_OFFL_SIR_IOPM_2_20180627104518_20180627106501_C001  CS_OFFL_SIR_IOPM_2_20180627105124_20180627106502_C001  CS_OFFL_SIR_IOPM_2_20180627105124_20180627106502_C001  CS_OFFL_SIR_IOPM_2_20180627105124_20180627106503_C001  CS_OFFL_SIR_IOPM_2_20180627105124_2018062710623_C001  CS_OFFL_SIR_IOPM_2_20180627105124_2018062710623_C001  CS_OFFL_SIR_IOPM_2_20180627106124_2018062710623_C001  CS_OFFL_SIR_IOPM_2_20180627106242_2018062710623_C001  CS_OFFL_SIR_IOPM_2_20180627106254_2018062710623_C001  CS_OFFL_SIR_IOPM_2_20180627106254_20180627106254_C001  CS_OFFL_SIR_IOPM_2_20180627106254_20180627106254_C001  CS_OFFL_SIR_IOPM_2_20180627106254_20180627106504_C001  CS_OFFL_SIR_IOPM_2_20180627106555_20180627106504_C001  CS_OFFL_SIR_IOPM_2_20180627106504_C001  CS_OFFL_SIR_IOPM_2_20180627106505_C001  CS_OFFL_SIR_IOPM_2_20180627106505_C001  CS_OFFL_SIR_IOPM_2_20180627106505_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_20180627106607_C001  CS_OFFL_SIR_IOPM_2_201806271106607_C001  CS_OFFL_SIR_IOPM_2_201806271106607_C001  CS_OFFL_SIR_IOPM_2_201806271106607_C001  CS_OFFL_SIR_IOPM_2_201806271110607_C001  CS_OFFL_SIR_IOPM_2_201806271110607_C001  CS_OFFL_SIR_IOPM_2_201806271110607_C001  CS_OFFL_SIR_IOPM_2_201806271110607_	CS_OFFL_SIR_IOPM_2_20180627T041133_20180627T042343_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_2018062770473_20180027705035_C001  Ocean Range Averaging Status  The Ios Range Averaging Status Flag has been set for 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 Ios Range Averaging Status Flag has been set for 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	CS_OFFL_SIR_IOPM_2_20180627T042548_20180627T044039_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_OPM_2_20180627704542_20180627705095_CO1  CS_OFFL_SIR_OPM_2_201806277061242_201806277061942_CO1  CS_OFFL_SIR_OPM_2_201806277061242_201806277061942_CO1  CS_OFFL_SIR_OPM_2_201806277061242_201806277061942_CO1  CS_OFFL_SIR_OPM_2_20180627706242_201806277061942_CO1  CS_OFFL_SIR_OPM_2_20180627706242_201806277062730_CO1  CS_OFFL_SIR_OPM_2_20180627706242_201806277070754_CO1  CS_OFFL_SIR_OPM_2_20180627706245_201806277070754_CO1  CS_OFFL_SIR_OPM_2_2018062770645_201806277070754_CO1  CS_OFFL_SIR_OPM_2_2018062770645_20180627706400_CO1  CS_OFFL_SIR_OPM_2_2018062770645_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706450_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706450_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706450_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706450_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706450_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706400_20180627706400_CO1  CS_OFFL_SIR_OPM_2_20180627706400_20180627706400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_20180627706400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_20180627706400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_20180627706400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_20180627706400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_201806277106400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_201806277106400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_201806277106400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_201806277106400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_201806277106400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_201806277106400_CO1  CS_OFFL_SIR_OPM_2_201806277106400_2018062771106400_C	CS_OFFL_SIR_IOPM_2_20180627T044318_20180627T044819_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_JOPM_2_20180627105420_20180627054201  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627054942_C001  CS_OFFL_SIR_JOPM_2_201806271050542_201806270549542_C001  CS_OFFL_SIR_JOPM_2_201806271050552_201806270570546_C001  CS_OFFL_SIR_JOPM_2_201806271050542_20180627055654_C001  CS_OFFL_SIR_JOPM_2_201806271050567_20180627055626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_20180627055626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_20180627056654_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_2018062705626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_20180627105626_C001  CS_OFFL_SIR_JOPM_2_201806271050567_20180627105606_C001  CS_OFFL_SIR_JOPM_2_201806271050567_20180627105606_C001  CS_OFFL_SIR_JOPM_2_201806271050567_201806271005406_C001  CS_OFFL_SIR_JOPM_2_2018062711050567_201806271102732_C001  CS_OFFL_SIR_JOPM_2_2018062711050567_201806271102732_C001  CS_OFFL_SIR_JOPM_2_201806271112667_201806271102732_C001  CS_OFFL_SIR_JOPM_2_201806271112667_201806271110273_C001  CS_OFFL_SIR_JOPM_2_201806271112667_2018062711105057_C0018067_100567_100567_2018062711005406_C001  CS_OFFL_SIR_JOPM_2_201806271110567_2018062711105057_C0018067_100567_100567_100567_2018062711005406_C001  CS_OFFL_SIR_JOPM_2_201806271105067_2018062711005406_C001  CS_OFFL_SIR_JOPM_2_201806271105067_2018062711005406_C001  CS_OFFL_SIR_JOPM_2_201806271105067_2018062711050567_C0018067_100567_100567_100567_100567_100567_100567_1005	CS_OFFL_SIR_IOPM_2_20180627T045737_20180627T050801_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_JOPM_2_201808271060124_201808271061842_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status Flag has been set for one or more records.  The Cocan Range Averaging Status F	CS_OFFL_SIR_IOPM_2_20180627T051420_20180627T052635_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180827T09408_20180827T09408_2010027T09408_2010  CS_OFFL_SIR_IOPM_2_20180827T09408_20180827T09408_2010  CS_OFFL_SIR_IOPM_2_20180827T09408_20180827T109408_2010  CS_OFFL_SIR_IOPM_2_20180827T09408_20180827T109408_20180827T09408_2010  CS_OFFL_SIR_IOPM_2_20180827T09408_20180827T109408_20180827T09408_20180827T109408_20	CS OFFL SIR IOPM 2 20180627T060124 20180627T060253 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T062232_20180627T062916_CO01  CS_OFFL_SIR_IOPM_2_20180627T062812_20180627T062816_CO01  CS_OFFL_SIR_IOPM_2_20180627T062812_20180627T065654_CO01  CS_OFFL_SIR_IOPM_2_20180627T065657_20180627T065654_CO01  CS_OFFL_SIR_IOPM_2_20180627T065657_20180627T065654_CO01  CS_OFFL_SIR_IOPM_2_20180627T065657_20180627T065654_CO01  CS_OFFL_SIR_IOPM_2_20180627T065657_20180627T065657_CO01  CS_OFFL_SIR_IOPM_2_20180627T065657_20180627T07554_CO01  CS_OFFL_SIR_IOPM_2_20180627T065657_20180627T075826_CO01  CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T0801037_CO01  CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T081346_20180627T080103_CO01  CS_OFFL_SIR_IOPM_2_20180627T081346_20180627T0809384_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094600_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T1094100410_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T1094006_CO01  CS_OFFL_SIR_IOPM_2_20180627T096331_20180627T102702_CO01  CS_OFFL_SIR_IOPM_2_20180627T1096331_20180627T1027040000000000000000000000000000000000			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T062812_20180627T062812_CO01  CS_OFFL_SIR_IOPM_2_20180627T063525_20180627T065654_CO01  CS_OFFL_SIR_IOPM_2_20180627T063525_20180627T070754_CO01  CS_OFFL_SIR_IOPM_2_20180627T063525_20180627T070754_CO01  CS_OFFL_SIR_IOPM_2_20180627T063525_20180627T070754_CO01  CS_OFFL_SIR_IOPM_2_20180627T068567_20180627T070754_CO01  CS_OFFL_SIR_IOPM_2_20180627T068567_20180627T0708546_CO01  CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T08107_CO01  CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T08107_CO01  CS_OFFL_SIR_IOPM_2_20180627T081348_20180627T098384_CO01  CS_OFFL_SIR_IOPM_2_20180627T094052_20180627T098384_CO01  CS_OFFL_SIR_IOPM_2_20180627T094052_00180627T094056_CO01  CS_OFFL_SIR_IOPM_2_20180627T094052_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T094052_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T094052_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T094052_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T09531_20180627T094050_CO01  CS_OFFL_SIR_IOPM_2_20180627T09531_20180627T102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T112693_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T112693_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T112693_20180627T1102710_CO01  CS_OFFL_SIR_IOPM_2_20180627T112693_20180627T1126040_CO01  CS_OFFL_SIR_IOPM_2_20180627T112693_20180627T1126040_CO01  CS_OFFL_SIR_IOPM_2_20180627T112693_20180627T1126040_CO01  CS_OFFL_SIR_IOPM_2_201			
CS_OFFL_SIR_IOPM_2_20180627T063525_20180627T065654_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more seconds.  SOFFL_SIR_IOPM_2_20180627T07545_20180627T075526_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more seconds.  SOFFL_SIR_IOPM_2_20180627T080709_20180627T081037_C001  Ice Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more seconds.  SOFFL_SIR_IOPM_2_20180627T081348_20180627T081107_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more seconds.  SOFFL_SIR_IOPM_2_20180627T081348_20180627T084110_C001  Ocean Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more seconds.  SOFFL_SIR_IOPM_2_20180627T081348_20180627T084600_C001  Ice Range Averaging Status  Ice Range Averaging Status  The Cocan Range Averaging Status Flag has been set for one or more seconds.  SOFFL_SIR_IOPM_2_20180627T094058_20180627T094600_C001  Ice Range Averaging Status  Ice Range Aver			
CS_OFFL_SIR_IOPM_2_20180627T07545_20180627T075826_CO01  CS_OFFL_SIR_IOPM_2_20180627T07545_20180627T075826_CO01  CS_OFFL_SIR_IOPM_2_20180627T081037_CO01  Lee Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180627T081037_CO01  Lee Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180627T081348_20180627T084110_CO01  CS_OFFL_SIR_IOPM_2_20180627T081348_20180627T084354_CO01  CS_OFFL_SIR_IOPM_2_20180627T084058_20180627T094055_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094055_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T004005_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T004055_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T004055_CO01  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T004055_CO01  CS_OFFL_SIR_IOPM_2_20180627T100410_CO01  CS_OFFL_SIR_IOPM_2_20180627T11246_20180627T112634_CO01  CS_OFFL_SIR_IOPM_2_20180627T11246_20180627T112634_CO01  CS_OFFL_SIR_IOPM_2_20180627T11246_20180627T112634_CO01  CS_OFFL_SIR_IOPM_2_20180627T112659_20180627T112634_CO01  CS_OFFL_SIR_IOPM_2_20180627T112659_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T112650_CO01  CS_OFFL_SIR_IOPM_2_20180627T112650_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_20180627T1126504_CO01  CS_OFFL_SIR_IOPM_2_			
CS_OFF_SIR_IOPM_2_201806277107354_201806277075826_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277081034_201806277081037_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277081034_201806277098334_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277094052_01806277094050_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277094052_01806277094050_C001  Ice Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277094052_018062771094050_C001  CS_OFF_SIR_IOPM_2_2018062771094507_01806277109410_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277100948_201806277100410_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277100948_2018062771120673_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277112067_2018062771120613_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFF_SIR_IOPM_2_201806277112065_2018062771120617_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 on			
CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T080170_COOL  CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T080170_COOL  CS_OFFL_SIR_IOPM_2_20180627T081348_20180627T08110_COOL  CS_OFFL_SIR_IOPM_2_20180627T091152_20180627T093834_COOL  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094050_COOL  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094055_COOL  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094055_COOL  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094935_COOL  CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T109405_COOL  CS_OFFL_SIR_IOPM_2_20180627T109405_20180627T109405_COOL  CS_OFFL_SIR_IOPM_2_20180627T109405_20180627T109405_COOL  CS_OFFL_SIR_IOPM_2_20180627T109405_COOL  CS_OFFL_SIR_IOPM_2_20180627T109405_COOL  CS_OFFL_SIR_IOPM_2_20180627T10948_20180627T10970_COOL  CS_OFFL_SIR_IOPM_2_20180627T110948_20180627T110970_COOL  CS_OFFL_SIR_IOPM_2_20180627T111246_20180627T11172_COOL  CS_OFFL_SIR_IOPM_2_20180627T111246_20180627T11172_COOL  CS_OFFL_SIR_IOPM_2_20180627T112057_20180627T112057_COOL  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T112057_COOL  CS_OFFL_SIR_IOPM_2_20180627T11305108_20180627T112057_COOL  CS_OFFL_SIR_IOPM_2_20180627T11305108_20180627T112057_COOL  CS_OFFL_SIR_IOPM_2_20180627T11305108_20180627T112059_COOL  CS_OFFL_SIR_IOPM_2_20180627T11305108_20180627T120610_COOL  CS_OFFL_SIR_IOPM_2_20180627T11305108_20180627T120610_COOL  CS_OFFL_SIR_IOPM_2_20180627T11305108_20180627T120610_COOL  CS_OFFL_SIR_IOPM_2_20180627T1130510_20180627T120610_COOL  CS_OFFL_SIR_IOPM_2_20180627T130510_20180627T120610_COOL  CS_OFFL_SIR_IOPM_2_20180627T130510_20180627T130510_COOL  COOL  CS_OFFL_SIR_IOPM_2_20180627T130510_COOL  COOL			records.
CS_OFFL_SIR_IOPM_2_20180627T081348_0180627T08410_C001  CS_OFFL_SIR_IOPM_2_20180627T081348_0180627T094800_C001  CS_OFFL_SIR_IOPM_2_20180627T094058_0180627T094800_C001  CS_OFFL_SIR_IOPM_2_20180627T094058_0180627T094800_C001  CS_OFFL_SIR_IOPM_2_20180627T094058_0180627T094800_C001  CS_OFFL_SIR_IOPM_2_20180627T094058_0180627T094800_C001  CS_OFFL_SIR_IOPM_2_20180627T094058_0180627T094935_C001  CS_OFFL_SIR_IOPM_2_20180627T094053_1_20180627T109401_C001  CS_OFFL_SIR_IOPM_2_20180627T094053_1_20180627T109401_C001  CS_OFFL_SIR_IOPM_2_20180627T109480_C001  CS_OFFL_SIR_IOPM_2_20180627T109480_C001  CS_OFFL_SIR_IOPM_2_20180627T109480_C001  CS_OFFL_SIR_IOPM_2_20180627T109480_C001  CS_OFFL_SIR_IOPM_2_20180627T10948_0180627T109480_C001  CS_OFFL_SIR_IOPM_2_20180627T1120510_20180627T112050_C001  CS_OFFL_SIR_IOPM_2_20180627T1120510_C001  CS_OFFL_SIR_IOPM_2_20180627T112057_C0180627T112052_C001  CS_OFFL_SIR_IOPM_2_20180627T112057_C0180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120543_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120540_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120540_C001  CS_OFFL_SIR_IOPM_2_20180627T112059_20180627T1120540_C001  CS_OFFL_SIR_IOPM_2_20180627T131555_20180627T135604_C001  CS_OFFL_SIR_IOPM_2_20180627T135604_C001  CS_OFFL_SIR_IOPM_2_20180627T1355604_C001  CS_OFF			records.
CS_OFFL_SIR_IOPM_2_20180627T094558_20180627T094000_C001  CS_OFFL_SIR_IOPM_2_20180627T094505_20180627T094600_C001  CS_OFFL_SIR_IOPM_2_20180627T094607_20180627T094600_C001  CS_OFFL_SIR_IOPM_2_20180627T094607_20180627T0940935_C001  CS_OFFL_SIR_IOPM_2_20180627T094607_20180627T0940935_C001  CS_OFFL_SIR_IOPM_2_20180627T099531_20180627T109401_C001  CS_OFFL_SIR_IOPM_2_20180627T100948_20180627T100410_C001  CS_OFFL_SIR_IOPM_2_20180627T100948_20180627T100410_C001  CS_OFFL_SIR_IOPM_2_20180627T100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T1100948_20180627T100948_2018062	CS_OFFL_SIR_IOPM_2_20180627T080709_20180627T081037_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201806271094605_201806271094605_C001  CS_OFFL_SIR_IOPM_2_201806271094607_201806271094935_C001  CS_OFFL_SIR_IOPM_2_201806271094607_201806271094935_C001  CS_OFFL_SIR_IOPM_2_201806271095331_201806271100410_C001  CS_OFFL_SIR_IOPM_2_201806271095331_201806271100410_C001  CS_OFFL_SIR_IOPM_2_201806271100948_201806271102723_C001  CS_OFFL_SIR_IOPM_2_20180627110948_201806271102723_C001  CS_OFFL_SIR_IOPM_2_20180627110948_201806271105406_C001  CS_OFFL_SIR_IOPM_2_20180627111246_2018062711105406_C001  CS_OFFL_SIR_IOPM_2_20180627111246_20180627111272001  CS_OFFL_SIR_IOPM_2_201806271112057_20180627111272001  CS_OFFL_SIR_IOPM_2_201806271112057_201806271112001  CS_OFFL_SIR_IOPM_2_201806271112057_201806271112064_C001  CS_OFFL_SIR_IOPM_2_201806271112057_201806271112064_C001  CS_OFFL_SIR_IOPM_2_201806271112057_20180627112001  CS_OFFL_SIR_IOPM_2_201806271112057_201806271112064_C001  CS_OFFL_SIR_IOPM_2_201806271112057_20180627112064_C001  CS_OFFL_SIR_IOPM_2_20180627112057_20180627112064_C001  CS_OFFL_SIR_IOPM_2_20180627112057_20180627112061_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112063_C001  CS_OFFL_SIR_IOPM_2_20180627112064_C001  CS_OFFL_SIR_IOPM_2_20180627112064_C001  CS_OFFL_SIR_IOPM_2_20180627112064_C001  CS_OFFL_SIR_IOPM_2_20180627112064_C001  CS_OFFL_SIR_IOPM_2_201806271135840_C001  CS_OFFL_SIR_IOPM_2_201806271135840_C001  CS_OFFL_SIR_IOPM_2_201806271135913_201806271135951_C001  CCean 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 reco	CS_OFFL_SIR_IOPM_2_20180627T081348_20180627T084110_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T094935_C001	CS_OFFL_SIR_IOPM_2_20180627T091152_20180627T093834_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T10948_20180627T10948_20180627T102723_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180627T10948_20180627T105406_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 R	CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094600_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T109337_20180627T102723_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status F	CS_OFFL_SIR_IOPM_2_20180627T094607_20180627T094935_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180627T105406_C001  CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T105406_C001  CS_OFFL_SIR_IOPM_2_20180627T11246_20180627T11727_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	CS_OFFL_SIR_IOPM_2_20180627T095331_20180627T100410_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180627T11246_20180627T1127C_CO01  CS_OFFL_SIR_IOPM_2_20180627T112657_20180627T112632_CO01  CS_OFFL_SIR_IOPM_2_20180627T112067_20180627T112632_CO01  CS_OFFL_SIR_IOPM_2_20180627T113324_20180627T1120643_CO01  CS_OFFL_SIR_IOPM_2_20180627T113324_20180627T120643_CO01  CS_OFFL_SIR_IOPM_2_20180627T10659_20180627T120643_CO01  CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120643_CO01  CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120643_CO01  CS_OFFL_SIR_IOPM_2_20180627T12923_20180627T120817_CO01  CS_OFFL_SIR_IOPM_2_20180627T12923_20180627T12041_CO01  CS_OFFL_SIR_IOPM_2_20180627T129303_20180627T125604_CO01  CS_OFFL_SIR_IOPM_2_20180627T135903_20180627T125604_CO01  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_CO01  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_CO01  CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T135951_CO01  CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T141425_CO01  CCS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_CO01  CCS_OFFL_SIR_IOPM_2_20180627T141521_20180627T141425_CO01  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPM_2_20180627T100948_20180627T102723_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180627T112057_20180627T112632_C001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T113324_20180627T120643_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180627T121923_20180627T122041_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.  CS_OFFL_SIR_IOPM_2_20180627T131155_20180627T135849_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T135849_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.	CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T105406_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180627T113324_20180627T120643_C001  CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_C001  CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_C001  CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_C001  CS_OFFL_SIR_IOPM_2_20180627T121923_20180627T12041_C001  CS_OFFL_SIR_IOPM_2_20180627T121923_20180627T125604_C001  CS_OFFL_SIR_IOPM_2_20180627T123903_20180627T125604_C001  CS_OFFL_SIR_IOPM_2_20180627T131155_20180627T134804_C001  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_C001  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_C001  CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T135951_C001  CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T135951_C001  CS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_C001  CS_OFFL_SIR_IOPM_2_20180627T141521_20180627T143258_C001  CS_OFFL_SIR_IOPM_2_20180627T141521_20180627T143258_C	CS_OFFL_SIR_IOPM_2_20180627T111246_20180627T111727_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180627T120643_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_20180627T123903_20180627T125604_C001  Ocean Range Averaging Status  CS_OFFL_SIR_IOPM_2_20180627T131155_20180627T134804_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_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.	CS_OFFL_SIR_IOPM_2_20180627T112057_20180627T112632_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_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_20180627T123903_20180627T125604_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_20180627T131155_20180627T134804_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.	CS_OFFL_SIR_IOPM_2_20180627T113324_20180627T120643_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T121923_20180627T122041_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T135951_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_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.	CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T123903_20180627T125604_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_20180627T135813_20180627T135951_C001  CS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_C001  Ocean Range Averaging Status  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for 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
CS_OFFL_SIR_IOPM_2_20180627T131155_20180627T134804_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.  CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_IOPM_2_20180627T141521_20180627T143258_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
CS_OFFL_SIR_IOPM_2_20180627T135826_20180627T135849_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.  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.  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
CS_OFFL_SIR_IOPM_2_20180627T135913_20180627T135951_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_20180627T141005_20180627T141425_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_20180627T141005_20180627T141425_C001  CS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_C001  CS_OFFL_SIR_IOPM_2_20180627T141521_20180627T143258_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_20180627T141005_20180627T141225_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.			records.
CS_OFFL_SIK_OFM_2_01000271141321_201000271143230_C001  Ocean Rainge Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more			records.
			records.
CS_OFFL_SIK_IOPM_2_201000271145201_201000271150924_C001  Ocean Range Averaging Status  records.  The Ocean Range Averaging Status Flag has been set for one or more		Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T151333_20180627T152803_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180627T151333_20180627T152803_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T154041_20180627T155826_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180627T154041_20180627T155826_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T155947_20180627T161339_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180627T155947_20180627T161339_C001	Ocean Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20180627T162448_20180627T162842_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T163050_20180627T164601_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T164802_20180627T165726_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T172001_20180627T172132_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T172419_20180627T173626_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T175232_20180627T175448_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T175945_20180627T180743_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T181027_20180627T182507_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T190208_20180627T191139_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T191142_20180627T193458_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T194053_20180627T194630_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T195021_20180627T201423_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T204633_20180627T205727_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T210303_20180627T211345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T212027_20180627T212502_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T212906_20180627T215628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T220044_20180627T220553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T222013_20180627T225221_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T225937_20180627T230510_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T230811_20180627T231257_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T234408_20180627T234635_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T235854_20180628T003210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T053416_20180627T053628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T080703_20180627T080708_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T112632_20180627T112950_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T144430_20180627T145001_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T162842_20180627T163021_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T185344_20180627T185934_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T212502_20180627T212605_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180627T000459_20180627T000646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180627T230626_20180627T230811_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180627T000220_20180627T000459_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_20180627T003306_20180627T003701_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_20180627T004728_20180627T005827_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_20180627T010112_20180627T012227_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_20180627T012902_20180627T013023_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T013031_20180627T013438_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T013859_20180627T014946_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_20180627T015134_20180627T015851_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_20180627T015933_20180627T020409_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_20180627T022612_20180627T030122_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_20180627T030401_20180627T030921_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T030928_20180627T030934_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T030941_20180627T031223_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T032023_20180627T033255_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_20180627T033258_20180627T035030_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_20180627T035206_20180627T035620_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T041133_20180627T042343_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records.  The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180627T042548_20180627T044039_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T044318_20180627T044819_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T045737_20180627T050801_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_20180627T051420_20180627T052635_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_20180627T060124_20180627T060253_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_20180627T060546_20180627T061942_C001	SWH Averaging Status, Ocean	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_20180627T062232_20180627T062730_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T062812_20180627T062918_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180627T063525_20180627T065654_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_20180627T065657_20180627T070754_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_20180627T073545_20180627T075826_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_20180627T080709_20180627T081037_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180627T081348 20180627T084110 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180627T091152_20180627T093834_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180627T094058_20180627T094600_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T094607_20180627T094935_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T095331_20180627T100410_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_20180627T100948_20180627T102723_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180627T105108_20180627T105406_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_20180627T111246_20180627T111727_C001	Backscatter Averaging Status	more records.  The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180627T112057_20180627T112632_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_20180627T113324_20180627T120643_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180627T120659_20180627T120817_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_20180627T121923_20180627T122041_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_20180627T123903_20180627T125604_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_20180627T130018_20180627T130527_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T131155_20180627T134804_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_20180627T135826_20180627T135849_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 20180627T135913 20180627T135951 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180627T141005_20180627T141425_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_20180627T141521_20180627T143258_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_20180627T145201_20180627T150924_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180627T151333_20180627T152803_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_20180627T154041_20180627T155826_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_20180627T155947_20180627T161339_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_20180627T162448_20180627T162842_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T163050_20180627T164601_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_20180627T164802_20180627T165726_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_20180627T172419_20180627T173626_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_20180627T175945_20180627T180743_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180627T190208_20180627T191139_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 20180627T191142 20180627T193458 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_20180627T194053_20180627T194630_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_20180627T195021_20180627T201423_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_20180627T204633_20180627T205727_C001	Backscatter Averaging Status	more records.

CS_OFFL_SIR_IOPM_2_20180627T210303_20180627T211345_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_20180627T212027_20180627T212502_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T212906_20180627T215628_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_20180627T220044_20180627T220553_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_20180627T222013_20180627T225221_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_20180627T225937_20180627T230510_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180627T234408_20180627T234635_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_20180627T235854_20180628T003210_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_20180627T053416_20180627T053628_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_20180627T080703_20180627T080708_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T112632_20180627T112950_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_20180627T144430_20180627T145001_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180627T162842_20180627T163021_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_20180627T185344_20180627T185934_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_20180627T202832_20180627T202906_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_20180627T212502_20180627T212605_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180627T000459_20180627T000646_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_20180627T230626_20180627T230811_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

## 5.8 L2 Ocean Retracking Quality Check

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

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

Number of products with errors:

## 6. IOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

# 6.4 P2P Auxiliary Correction Error Check

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

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Number of products with errors:

## 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

### 6.6 P2P Range Measurement Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180626T235101_20180627T004040_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T004040_20180627T013015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T013015_20180627T021954_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_220180627T021954_20180627T030928_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_220180627T030928_20180627T035907_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_220180627T035907_20180627T044842_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180627T044842_20180627T053821_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180627T053821_20180627T062755_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_220180627T062755_20180627T071735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T071735_20180627T080709_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_220180627T080709_20180627T085648_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T085648_20180627T094623_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_220180627T094623_20180627T103602_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_220180627T103602_20180627T112536_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_220180627T112536_20180627T121515_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T121515_20180627T130450_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_220180627T130450_20180627T135429_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T135429_20180627T144403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T144403_20180627T153342_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T153342_20180627T162317_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_220180627T162317_20180627T171256_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_220180627T171256_20180627T180230_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_220180627T180230_20180627T185209_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_220180627T185209_20180627T194144_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_220180627T194144_20180627T203123_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_220180627T203123_20180627T212058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180627T212058_20180627T221037_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_220180627T221037_20180627T230011_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_220180627T230011_20180627T234950_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180626T235101_20180627T004040_C002	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_220180627T004040_20180627T013015_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_220180627T013015_20180627T021954_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T021954_20180627T030928_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T030928_20180627T035907_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T035907_20180627T044842_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T044842_20180627T053821_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_220180627T053821_20180627T062755_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T062755_20180627T071735_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_220180627T071735_20180627T080709_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T080709_20180627T085648_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_220180627T085648_20180627T094623_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T094623_20180627T103602_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T103602_20180627T112536_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T112536_20180627T121515_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_220180627T121515_20180627T130450_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T130450_20180627T135429_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_220180627T135429_20180627T144403_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_220180627T144403_20180627T153342_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180627T153342_20180627T162317_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T162317_20180627T171256_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T171256_20180627T180230_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T180230_20180627T185209_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T185209_20180627T194144_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T194144_20180627T203123_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T203123_20180627T212058_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_220180627T212058_20180627T221037_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180627T221037_20180627T230011_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_220180627T230011_20180627T234950_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

#### 6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors:

CS\_OFFL\_SIR\_IOP\_2\_\_20180626T235101\_20180627T004040\_C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T004040\_20180627T013015\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T013015\_20180627T021954\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T021954\_20180627T030928\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T030928\_20180627T035907\_C001 The Ocean Retracking Quality Flag has been set for one or more records. Ocean Retracking Quality Flag CS\_OFFL\_SIR\_IOP\_2\_\_20180627T035907\_20180627T044842\_C001 Ocean Retracking Quality Flag he Ocean Retracking Quality Flag has been set for one or more records CS\_OFFL\_SIR\_IOP\_2\_\_20180627T044842\_20180627T053821\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T053821\_20180627T062755\_C001 The Ocean Retracking Quality Flag has been set for one or more records. Ocean Retracking Quality Flag CS\_OFFL\_SIR\_IOP\_2\_\_20180627T062755\_20180627T071735\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180627T080709 20180627T085648 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T085648\_20180627T094623\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T103602\_20180627T112536\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T112536\_20180627T121515\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T121515\_20180627T130450\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T130450\_20180627T135429\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T135429\_20180627T144403\_C001 The Ocean Retracking Quality Flag has been set for one or more records. Ocean Retracking Quality Flag CS\_OFFL\_SIR\_IOP\_2\_\_20180627T144403\_20180627T153342\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T153342\_20180627T162317\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180627T162317 20180627T171256 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T171256\_20180627T180230\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records CS\_OFFL\_SIR\_IOP\_2\_\_20180627T185209\_20180627T194144\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T194144\_20180627T203123\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T203123\_20180627T212058\_C001 The Ocean Retracking Quality Flag has been set for one or more records. Ocean Retracking Quality Flag CS\_OFFL\_SIR\_IOP\_2\_\_20180627T212058\_20180627T221037\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS\_OFFL\_SIR\_IOP\_2\_\_20180627T221037\_20180627T230011\_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180627T230011 20180627T234950 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.