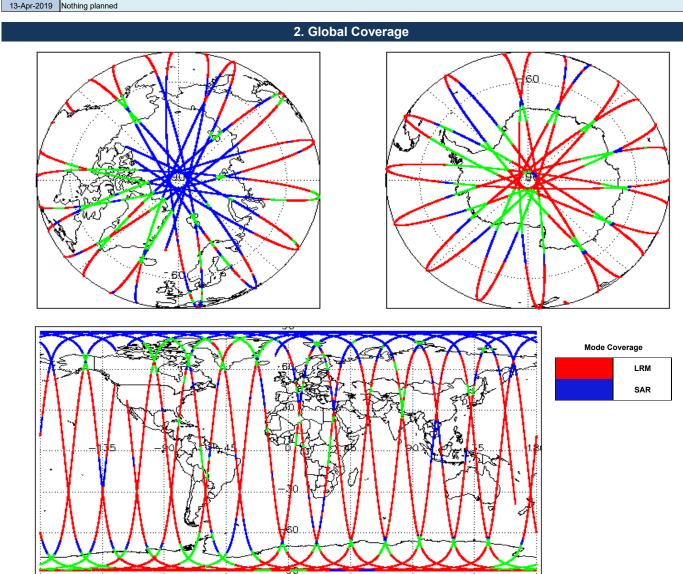


# IDEAS+ Daily Report for IOP data:

# <u>12/04/2019</u>

on out Duoduotion.	15-Apr-2019	Check	L1 & L2	P2P
eport Production:		Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Orres Orth Orrest Discourses	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

wission / instrument news			
11-Apr-2019	None		
12-Apr-2019	None		
10.1.0010			



# 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

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:

## 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. Number of products with errors: 0

4.3 L1B Auxilary Data File Usage Check	a datarminad baseline and star to	sheek the validity of Auviliany Data Files is correct
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement reco	rd. The bit value of this flag indicat	es any problems when set.
Number of products with errors: 0		
A 5 L 4 D Management O aufidance Data Ohaak		
4.5 L1B Measurement Confidence Data Check		
Attitude Correction Missing: This flag is currently set in error for IOPR prod Number of products with errors: 0 A 5 J 4 B Woweform Group Data Chaok		his is being investigated and will be updated in the next SW update.
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag indicate	
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is	d. The bit value of this flag indicate	
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is	d. The bit value of this flag indicate	
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       20	d. The bit value of this flag indicate	
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       20         Product	d. The bit value of this flag indicate s to be expected.	es any problems when set.
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       20         Product       CS_OFFL_SIR_IOPM1B_20190412T122029_20190412T125227_C001	d. The bit value of this flag indicate s to be expected. Test Failed	es any problems when set.
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       20         Product       20         CS_OFFL_SIR_IOPM1B_20190412T122029_20190412T125227_C001         CS_OFFL_SIR_IOPM1B_20190412T150439_20190412T151634_C001	d. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo	es any problems when set.           Description           The tracking echo is missing for one or more records
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is	d. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo Loss of Echo	Bescription     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       20         Product       20         CS_OFFL_SIR_IOPM1B_20190412T122029_20190412T125227_C001         CS_OFFL_SIR_IOPM1B_20190412T150439_20190412T151634_C001         CS_OFFL_SIR_IOPM1B_20190412T190134_20190412T192945_C001	d. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo	Bescription     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records
Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recor         Loss of Echo Flag: This flag is currently set for products over land, but this is         Number of products with errors:       20         Product       20         CS_OFFL_SIR_IOPM1B_20190412T122029_20190412T125227_C001         CS_OFFL_SIR_IOPM1B_20190412T150439_20190412T151634_C001         CS_OFFL_SIR_IOPM1B_20190412T190134_20190412T192945_C001         CS_OFFL_SIR_IOPM1B_20190412T04202_20190412T04243_C001	d. The bit value of this flag indicate s to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo Loss of Echo	Bescription     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records     The tracking echo is missing for one or more records

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190412T122029_20190412T125227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190412T150439_20190412T151634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190412T190134_20190412T192945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T004202_20190412T004243_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T022132_20190412T022258_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T025607_20190412T030222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T035554_20190412T035802_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T035900_20190412T040129_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T085846_20190412T090007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T112459_20190412T112618_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T120423_20190412T120837_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T134639_20190412T134742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T152102_20190412T152405_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T152433_20190412T152644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190412T221115_20190412T221242_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190412T132313_20190412T132348_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190412T144304_20190412T144543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190412T151634_20190412T151735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190412T151958_20190412T152102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190412T220641_20190412T220805_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: 0

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 0

0

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.

#### 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.

ean 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. 79

Number of products with errors:

Product Test Faile Description The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190411T235314 20190412T002617 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T004243\_20190412T004934\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T004950 20190412T011409 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T012344\_20190412T012538\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T013228 20190412T020114 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T022300 20190412T022519 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T022631\_20190412T023846\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T024505 20190412T025606 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T030222 20190412T030455 C001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T030518\_20190412T030944\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T031139\_20190412T032628\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T040501 20190412T041211 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T041335\_20190412T043733\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T044007\_20190412T044857\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T045115 20190412T051508 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T054210\_20190412T061626\_C001 Ocean Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T062223\_20190412T062647\_C001 Ice Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T063014 20190412T070321 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T072351 20190412T073840 C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T074415\_20190412T075540\_C001 Ocean Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T080137 20190412T080725 C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T080859\_20190412T082641\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T084634\_20190412T084724\_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T090007\_20190412T093437\_C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T094043\_20190412T094556\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T094747 20190412T095041 C001 Ocean Range Averaging Status ecords The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T095241\_20190412T095638\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T095708\_20190412T100658\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T102313 20190412T102611 C001 Ocean Range Averaging Status ecords. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T102629\_20190412T102658\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T104002\_20190412T104850\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T105136 20190412T111334 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T112050\_20190412T112459\_C001 Ice Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T112706\_20190412T114005\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T114051 20190412T114911 C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T115007\_20190412T115412\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T120001\_20190412T120202\_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T120202\_20190412T120253\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T122029 20190412T125227 C001 Ocean Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T125415 20190412T125942 C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T130001\_20190412T130230\_C001 Ice Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T130723\_20190412T130733\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS OFFL SIR IOPM 2 20190412T131044 20190412T132312 C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T132348\_20190412T134054\_C001 Ocean Range Averaging Status records The Ocean Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOPM\_2\_20190412T140235\_20190412T141410\_C001 Ocean Range Averaging Status records

C5       Open Rarge Averaging Status <ul> <li>Model 2.001001121104152.021001211104358.001</li> <li>Open Rarge Averaging Status</li> <li>The local Rarge Averaging Status</li> <li>Corrt, Str. Jonn 2.201001121104122 (20101121104102 (20101121104102 (20101121104102 (20101121104102 (20101121104102 (20101121104102 (20101121104102 (2010111104102 (201011101104102 (20101101101104102 (201011011104102 (201011011104102 (201011011104102 (20101101101104 (20101011104102 (20101101101104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101011104104 (20101041110404</li></ul>			The Occorr Bonge Averaging Status Eleg has been get for one or more
OPA         Description         Description         Description         Description           CS         CPFL_SRL_OPM_2_20100412114343_20100412114435_20001         Ioo Range Averaging Status         The List Range Averaging Status         The Use Range Averaging Status         The Us	CS_OFFL_SIR_IOPM_2_20190412T141613_20190412T143145_C001	Ocean Range Averaging Status	
Corpert         Corpert <t< td=""><td>CS_OFFL_SIR_IOPM_2_20190412T143342_20190412T143838_C001</td><td>Ice Range Averaging Status</td><td>records.</td></t<>	CS_OFFL_SIR_IOPM_2_20190412T143342_20190412T143838_C001	Ice Range Averaging Status	records.
Control	CS_OFFL_SIR_IOPM_2_20190412T143846_20190412T143853_C001	Ice Range Averaging Status	
Color Fig. 2.01004 (2110508); 201004 (2110508); 2001       Ocean Range Averaging Status       neccods.         CS, OFFL_SIR_JOPM 2, 201004 (2110508); 201004 (2110508); 20100       Ocean Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more teccods.         CS, OFFL_SIR_JOPM 2, 201004 (2110508); 201004 (201004); 201004 (2110508); 201004 (2110508); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (210004); 201004 (2100004); 2010004 (2100004); 201004 (210004); 201004 (210004); 201004	CS_OFFL_SIR_IOPM_2_20190412T144741_20190412T145958_C001	Ocean Range Averaging Status	
Correl_SIR_LOPM_2_2019012719332       Coden Rauge Averaging Status       records.         CS_OFE_SIR_LOPM_2_2019012719305_019012719312       Ee Rauge Averaging Status       The loc Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_0190127192402_01904127164002_0019       Loc Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_01904127164002_01904127164002_0019       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_019041271764006_0190412717006_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_0190412717776_00012717776_0001       Decean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_0190412717776_00012717776_0001       Decean Range Averaging Status       The Ioe Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_0190412717776_00101       Decean Range Averaging Status       The Ioe Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_01904127190322_01904127190320_010100       Decan Range Averaging Status       The Ioe Range Averaging Status Flag has been set for one or more facotal.         CS_OFE_SIR_LOPM_2_0190412719032_0190412719035_001       Decan Range Averaging Status       The Ocean Range Averaging Status Fla	CS_OFFL_SIR_IOPM_2_20190412T150439_20190412T151634_C001	Ocean Range Averaging Status	
Correl_SIR_LOPM_2_2019012716332_010012716332_0010       Lef Narge Averaging Status       moords.         CS_OFFL_SIR_LOPM_2_2019012716315_010012716315_0001       Dee Range Averaging Status       The Lee Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_2019012716315_010012716315_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_201904127172554_01606127174711_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_201904127172553_01604127173705_0001       Lee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_201904127175725_01604127176305_0001       Lee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_201904127175725_01604127116305_0001       Lee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_201904127116323_01604127116315_0001       Coean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_201904127116312_01604127119305_0001       Lee Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more moords.         CS_OFFL_SIR_LOPM_2_20190412710312_01104012710305_0001       Lee Range Averaging Status       The Ocean Range Averaging Status Flag h	CS_OFFL_SIR_IOPM_2_20190412T155536_20190412T161037_C001	Ocean Range Averaging Status	
GS_OFFL_SIR_JOPM_2_20190412T162042_0190412T164802_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more freedate.         GS_OFFL_SIR_JOPM_2_20190412T162042_0190412T164802_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more freedate.         GS_OFFL_SIR_JOPM_2_20190412T162042_0190412T16500_001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T162042_0190412T16500_001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T16505_001       Lee Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T163022_0190412T180352_001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T163022_0190412T180352_001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T163012_0190412T163014_00101       Decan Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T163012_0190412T163010_00101       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more everate.         CS_OFFL_SIR_JOPM_2_20190412T190314_2190412T190316_0011       Ice Rang	CS_OFFL_SIR_IOPM_2_20190412T161305_20190412T161751_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412T164806_20190412T165119_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T164806_20190412T167100       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T173254_20190412T175705_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T173254_20190412T175705_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T173252_20190412T180355_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T180352_20190412T180355_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T180352_20190412T180355_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T180352_20190412T180355_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T180352_20190412T180355_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL	CS_OFFL_SIR_IOPM_2_20190412T161815_20190412T161824_C001	Ice Range Averaging Status	
CS_OFFL_SR_OPM_2_20104121164802_00104121175705_001       Obtain Range Averaging Status       The Obsan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_201904121175735_001904121175705_001       Dosan Range Averaging Status       The Obsan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412117533_001904121175705_001       tor Range Averaging Status       The Los Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412117533_001904121175705_001       tor Range Averaging Status       The Los Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412117533_001904121175705_001       Dosan Range Averaging Status       The Cosan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412118032_0190412118031_001       Dosan Range Averaging Status       The Cosan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412118032_0190412118034_001       Dosan Range Averaging Status       The Cosan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412119032_0190412119035_001       tor Range Averaging Status       The Cosan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412119332_00190412119355_001       tor Range Averaging Status       The Cosan Range Averaging Status Flag has been set for one or more         CS_OFFL_SR_IOPM_2_20190412719322_0190412710302_001       Doean Range Averaging Status       The Cos	CS_OFFL_SIR_IOPM_2_20190412T162402_20190412T164802_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201901/2117/3016_201904/27175006_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status         CS_OFFL_SIR_IOPM_2_201904/27175732_201904/27175705_0001       to ce Range Averaging Status       The Ice Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/27175729_201904/27175705_0001       to ce Range Averaging Status       The Ice Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/27176729_201904/271780352_001       to ce Range Averaging Status       The Ocean Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/271780322_001904/27180312_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/127193122_01904/127192945_0001       ce Range Averaging Status       The Ocean Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/127193652_0010       ce Range Averaging Status       The Ocean Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/127193652_0010       cean Range Averaging Status       The Ocean Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/12719365_001       cea Range Averaging Status       The Ocean Range Averaging Status Flig has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904/12710362_01904/12719365_001       cea Range Averaging S	CS_OFFL_SIR_IOPM_2_20190412T164806_20190412T165119_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412T175008_2001         Ocean Range Averaging Status         The Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T175729_20190412T175705_0001         toe Range Averaging Status         The Ice Range Averaging Status         The Ice Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T175729_20190412T175705_0001         toe Range Averaging Status         The Ice Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T18032_20190412T183134_0001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T183134_0001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T19312_20190412T193619_0001         toe Range Averaging Status         The Ice Canne Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T19312_20190412T193619_0001         toe Range Averaging Status         The Ice Canne Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T194312_20190412T19432_001         Ocean Range Averaging Status         The Ocean Range Averaging Status Flag has been set for one or more tecods.           CS_OFFL_SIR_IOPM_2_20190412T21010_20190412T210432_001         Ocean Range Averaging Status         The Ocean	CS_OFFL_SIR_IOPM_2_20190412T172554_20190412T174711_C001	Ocean Range Averaging Status	
CS_OFL_SIR_JOPM_2_2019041211/3729_2019041271/305_001       ice Range Averaging Status       records.         CS_OFL_SIR_JOPM_2_2019041271/3729_2019041271/3055_0001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_20190412718032_20190412718031_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_20190412718034_201904127192045_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_201904127193032_201904127193045_0001       ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_201904127193032_201904127193055_0001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_201904127193057_201904127193052_0001       ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_20190412720310_201904127103102_0007_201904127203102_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_20190412720310_201904127203102_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFL_SIR_JOPM_2_20190412720310_20190412720310_001001 <t< td=""><td>CS_OFFL_SIR_IOPM_2_20190412T174716_20190412T175008_C001</td><td>Ocean Range Averaging Status</td><td></td></t<>	CS_OFFL_SIR_IOPM_2_20190412T174716_20190412T175008_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_2019041211832_0190412118035_0011       Ide Rainge Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190412T18022_20190412T18031_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T180134_20190412T19945_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T19365_0001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T19365_0001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T19367_20190412T19365_0001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T19367_20190412T19362_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T203119_20190412T203132_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210310_20190412T210312_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210310_20190412T210312_0001       Ocean Range	CS_OFFL_SIR_IOPM_2_20190412T175332_20190412T175705_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412T182054_20190412T18314_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Status Stage St	CS_OFFL_SIR_IOPM_2_20190412T175729_20190412T180055_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412118204_201904121192945_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T193132_20190412T193619_0001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T193612_20190412T193655_0001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T194319_20190412T1945432_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20007_20190412T201802_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20319_20190412T203192_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T21030_20190412T210432_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T21030_20190412T210432_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T2112_201902_0001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20190412T180322_20190412T181931_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412T193123_20190412T19369_C001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T19365_C001       Ice Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T194319_20190412T195432_C001       Ocean Range Averaging Status       The loce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20310_20190412T203180_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20310_20190412T203132_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210310_20190412T210432_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210310_20190412T210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T21233_20190412T1210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20302_20190412T2233_20190412T210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records. <tr< td=""><td>CS_OFFL_SIR_IOPM_2_20190412T182054_20190412T183134_C001</td><td>Ocean Range Averaging Status</td><td></td></tr<>	CS_OFFL_SIR_IOPM_2_20190412T182054_20190412T183134_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T193615_0001       Icle Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T193625_0001       Icle Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T195432_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T203109_20190412T20302_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20310_20190412T203132_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210632_20190412T210432_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210632_20190412T210632_C001       Ceean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T21122302_20190412T211650_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T202950_20190412T2115618_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T202950_20190412T202950_20190412T	CS_OFFL_SIR_IOPM_2_20190412T190134_20190412T192945_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201904121193922_01904121193925_0001       Idte Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_201904122194319_201904121201802_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904121203119_201904121203132_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904121210310_201904121210432_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412121032_01904121210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412121032_01904121210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904121211121_201904121210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412121238_201904121215618_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412122039_019041212125647_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904121222910_201904121222640_20190412122564	CS_OFFL_SIR_IOPM_2_20190412T193123_20190412T193619_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20190412T19339_20190412T19542_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190412T200007_20190412T201802_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T20319_20190412T203132_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210632_20190412T210432_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T210632_20190412T210927_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T21121_20190412T211650_C001       ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T21238_20190412T215618_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T22010_20190412T225842_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T22504_20190412T22547_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T22040_20190412T225547_C001 <td< td=""><td>CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T193955_C001</td><td>Ice Range Averaging Status</td><td></td></td<>	CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T193955_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOFM_2_20190412120000_201904121201802_001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904122100310_20190412210432_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412210632_201904127210632_201904127210632_001904127210632_001904127210632_001904127210632_001904127210632_001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_2019041272112_0032_20190412721650_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904127212328_201904127215618_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904127220950_2019041272215618_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412722910_201904127224834_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904127220402_01904127225547_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_201904127203142_20190412723530_C001       Ice Range Averaging Status       The Ocean Range Averaging Status	CS_OFFL_SIR_IOPM_2_20190412T194319_20190412T195432_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_201904121210632_201904121211650_C001       Ice Range Averaging Status       records.         CS_OFFL_SIR_IOPM_2_20190412212112_0190412T211650_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T212238_20190412T2215618_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T220950_20190412T2221115_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T222910_20190412T2224834_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T225040_20190412T225547_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T230142_20190412T233530_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T200142_20190412T200140_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T202109_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T204926_20190412T202109_C001	CS_OFFL_SIR_IOPM_2_20190412T210310_20190412T210432_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_201904121211212238_2019041212211650_C001Ice Range Averaging Statusrecords.CS_OFFL_SIR_IOPM_2_201904127220950_201904127221115_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20190412722910_2019041272221115_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20190412722910_201904127224834_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_201904127225040_201904127225547_C001Ice Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_201904127230142_201904127233530_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20190412703122_201904127203140_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_201904127201958_201904127202109_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_201904127224926_201904127202109_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_201904127224926_201904127225040_C001Ice Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_201904127224926_201904127225040_C001Ice Range Averaging StatusThe Ocean Range Averaging	CS_OFFL_SIR_IOPM_2_20190412T210632_20190412T210927_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOFM_2_2019041212228_2019041212288_201904121218618_C001Ocean Range Averaging Statusrecords.CS_OFFL_SIR_IOPM_2_20190412T222910_20190412T2224834_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20190412T225040_20190412T225547_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20190412T22010412T225040_20190412T225547_C001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20190412T203042_20190412T230530_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190412T003122_20190412T003140_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T202109_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001Ice Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190412T144304_20190412T144543_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPN_2_20190412T144543_C001Ocean Range Averaging StatusThe Ice Range Averaging	CS_OFFL_SIR_IOPM_2_20190412T211121_20190412T211650_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOFM_2_201904121220930_201904121221115_0001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T225040_20190412T225547_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T2230142_20190412T223530_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T003142_20190412T233530_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T003122_20190412T003140_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T202109_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T202109_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T20200_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T144304_20190412T144543_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20190412T212238_20190412T215618_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_201904121222010_201904121224834_C001       Ocean Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T220142_20190412T223547_C001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190412T003142_20190412T003140_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T003122_20190412T003140_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T002109_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001       Ice Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T144304_20190412T144543_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20190412T220950_20190412T221115_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_IOPM_2_201904121230142_201904121233530_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPN_2_20190412T003122_20190412T003140_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T02019_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T1244304_20190412T144543_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20190412T225040_20190412T225547_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20190412T003122_20190412T003140_C001       Ocean Range Averaging Status       records.         CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T202109_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T144304_20190412T144543_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20190412T230142_20190412T233530_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T202109_C001       Ocean Range Averaging Status       The Ocean Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190412T144304_20190412T144543_C001       Ocean Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPN_2_20190412T003122_20190412T003140_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_201904121224926_201904121225040_C001 ICC Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPN_2_20190412T201958_20190412T202109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
US OFFLISIK JOPK Z 201904121144304 201904121144543 UDU1 UCean Range Averaging Status	CS_OFFL_SIR_IOPN_2_20190412T224926_20190412T225040_C001	Ice Range Averaging Status	
	CS_OFFL_SIR_IOPR_2_20190412T144304_20190412T144543_C001	Ocean Range Averaging Status	

## 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 77

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190411T235314_20190412T002617_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_20190412T004243_20190412T004934_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_20190412T004950_20190412T011409_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_20190412T012344_20190412T012538_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190412T013228_20190412T020114_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_20190412T024505_20190412T025606_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_20190412T030222_20190412T030455_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190412T030518_20190412T030944_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190412T031139_20190412T032628_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\_20190412T040501\_20190412T041211\_C001 CS OFFL SIR IOPM 2 20190412T041335 20190412T043733 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T044007\_20190412T044857\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T045115\_20190412T051508\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T054210\_20190412T061626\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T062223\_20190412T062647\_C001 CS OFFL SIR IOPM 2 20190412T063014 20190412T070321 C001 CS OFFL SIR IOPM 2 20190412T072351 20190412T073840 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T074415\_20190412T075540\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T080137\_20190412T080725\_C001 CS OFFL SIR IOPM 2 20190412T080859 20190412T082641 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T084634\_20190412T084724\_C001 CS OFFL SIR IOPM 2 20190412T090007 20190412T093437 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T094043\_20190412T094556\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T094747\_20190412T095041\_C001 CS OFFL SIR IOPM 2 20190412T095241 20190412T095638 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T095708\_20190412T100658\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T102313\_20190412T102611\_C001 CS OFFL SIR IOPM 2 20190412T102629 20190412T102658 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T104002\_20190412T104850\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T105136\_20190412T111334\_C001 CS OFFL SIR IOPM 2 20190412T112050 20190412T112459 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T112706\_20190412T114005\_C001 CS OFFL SIR IOPM 2 20190412T114051 20190412T114911 C001 CS OFFL SIR IOPM 2 20190412T115007 20190412T115412 C001 CS OFFL SIR IOPM 2 20190412T120001 20190412T120202 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T122029\_20190412T125227\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T125415\_20190412T125942\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T130001\_20190412T130230\_C001 CS OFFL SIR IOPM 2 20190412T130723 20190412T130733 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T131044\_20190412T132312\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T132348\_20190412T134054\_C001 CS OFFL SIR IOPM 2 20190412T140235 20190412T141410 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T141613\_20190412T143145\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T143342\_20190412T143838\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T143846\_20190412T143853\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T143917\_20190412T144038\_C001 CS OFFL SIR IOPM 2 20190412T144741 20190412T145958 C001 CS OFFL SIR IOPM 2 20190412T150439 20190412T151634 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T155536\_20190412T161037\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T161305\_20190412T161751\_C001 CS OFFL SIR IOPM 2 20190412T161815 20190412T161824 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T161831\_20190412T161941\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T162402\_20190412T164802\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T164806\_20190412T165119\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T172554\_20190412T174711\_C001 CS OFFL SIR IOPM 2 20190412T174716 20190412T175008 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T175332\_20190412T175705\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T175729\_20190412T180055\_C001 CS OFFL SIR IOPM 2 20190412T180322 20190412T181931 C001 CS\_OFFL\_SIR\_IOPM\_2\_20190412T182054\_20190412T183134\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status SWH Averaging Status, Ocean

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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

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

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

more records. The Ice Backscatter Averaging Status Flag has been set for one or more

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

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

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

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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

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

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

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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

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

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

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

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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

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

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

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

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

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 records.

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

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

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

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

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

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 records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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

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

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

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 records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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

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

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

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

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 records.

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

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

CS_OFFL_SIR_IOPM_2_20190412T190134_20190412T192945_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_20190412T193123_20190412T193619_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190412T193627_20190412T193955_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190412T194319_20190412T195432_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_20190412T200007_20190412T201802_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_20190412T203119_20190412T203132_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_20190412T210310_20190412T210432_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_20190412T210632_20190412T210927_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_20190412T211121_20190412T211650_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190412T212238_20190412T215618_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_20190412T220950_20190412T221115_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_20190412T222910_20190412T224834_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_20190412T230142_20190412T233530_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_20190412T003122_20190412T003140_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_20190412T201958_20190412T202109_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_20190412T224926_20190412T225040_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190412T144304_20190412T144543_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
5.9.1.2 Occan Batwacking Quality Chack		

#### 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. 58

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: 0

### 6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 0

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

#### 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. 30

Product	Test Failed	Description
 CS_OFFL_SIR_IOP_220190411T234555_20190412T003533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T003533_20190412T012508_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_220190412T012508_20190412T021447_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_220190412T021447_20190412T030422_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_220190412T030422_20190412T035400_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_220190412T035400_20190412T044336_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_220190412T044336_20190412T053314_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_220190412T053314_20190412T062249_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_220190412T062249_20190412T071227_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_220190412T071227_20190412T080203_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T080203_20190412T085141_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T085141_20190412T094117_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_220190412T094117_20190412T103055_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_220190412T103055_20190412T112030_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_220190412T112030_20190412T121008_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_220190412T121008_20190412T125944_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_220190412T125944_20190412T134922_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T134922_20190412T143857_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_220190412T143857_20190412T152835_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T152835_20190412T161811_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_220190412T161811_20190412T170749_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T170749_20190412T175724_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_220190412T175724_20190412T184702_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_220190412T184702_20190412T193638_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_220190412T193638_20190412T202616_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T202616_20190412T211552_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_220190412T211552_20190412T220530_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_220190412T220530_20190412T225505_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_220190412T225505_20190412T234443_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T234443_20190413T003419_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190411T234555_20190412T003533_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_220190412T003533_20190412T012508_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_220190412T012508_20190412T021447_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_220190412T021447_20190412T030422_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_220190412T030422_20190412T035400_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_220190412T035400_20190412T044336_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_220190412T044336_20190412T053314_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_220190412T053314_20190412T062249_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_220190412T062249_20190412T071227_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_220190412T071227_20190412T080203_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_220190412T080203_20190412T085141_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_220190412T085141_20190412T094117_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_220190412T094117_20190412T103055_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_220190412T103055_20190412T112030_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_220190412T112030_20190412T121008_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_2_20190412T121008_20190412T125944_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_220190412T125944_20190412T134922_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_220190412T134922_20190412T143857_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_220190412T143857_20190412T152835_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_220190412T152835_20190412T161811_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_220190412T161811_20190412T170749_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_220190412T170749_20190412T175724_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_220190412T175724_20190412T184702_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_220190412T184702_20190412T193638_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_220190412T193638_20190412T202616_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_20190412T202616_20190412T211552_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_220190412T211552_20190412T220530_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_220190412T220530_20190412T225505_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_220190412T225505_20190412T234443_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Number of products with errors:

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.

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190411T234555_20190412T003533_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T003533_20190412T012508_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T012508_20190412T021447_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T021447_20190412T030422_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T030422_20190412T035400_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T035400_20190412T044336_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T044336_20190412T053314_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T053314_20190412T062249_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T062249_20190412T071227_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T080203_20190412T085141_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T094117_20190412T103055_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T103055_20190412T112030_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T112030_20190412T121008_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T121008_20190412T125944_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T125944_20190412T134922_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T134922_20190412T143857_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T143857_20190412T152835_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T161811_20190412T170749_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T170749_20190412T175724_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T175724_20190412T184702_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T184702_20190412T193638_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T193638_20190412T202616_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T202616_20190412T211552_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T211552_20190412T220530_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220190412T220530_20190412T225505_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

Ocean Retracking Quality Flag

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

CS\_OFFL\_SIR\_IOP\_2\_\_20190412T234443\_20190413T003419\_C002

Ocean Retracking Quality Flag

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