

# **QA4EO Daily Report for IOP data:**

<u>22/02/2020</u>

Report Production:	25-Feb-2020	Check	L1 & L2	P2P
Report Froduction.	20-1 60-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor used.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

2. Global Coverage

1. Overview

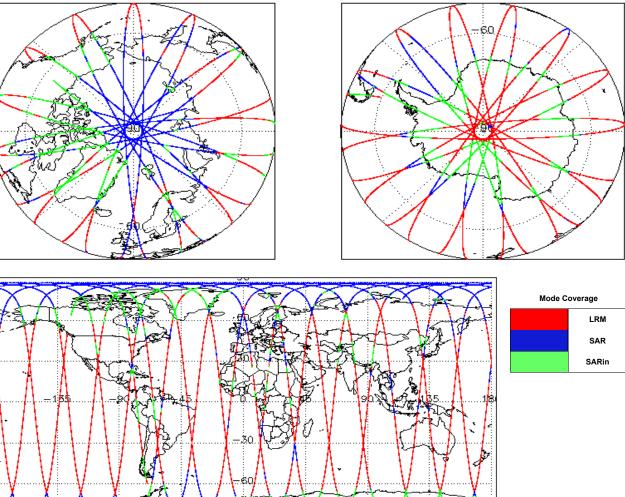
#### Mission / Instrument News

21-Feb-2020 SIRAL unavailability on 21-Feb-2020 from 08:17:00 to 08:41:01 due to an unplanned platform anomaly.

22-Feb-2020 None

#### 23-Feb-2020 Nothing planned





## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

## 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).

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 incons	istencies and/or errors raised by the ground-segment processing chain.
_1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all DSARIn chains. A modification is required in the next release.	L1B IOPR and IOPN products because	the I1b_processing_quality_hr field is not correctly configured in the OSAR and
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a	pre-determined baseline and also to ch	eck 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 re	cord. The bit value of this flag indicates	any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measu	rement record. The bit value of this flag	indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR pro	oducts due to a configuration issue. Thi	s is being investigated and will be updated in the next SW update.
Number of products with errors: 2		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200222T001111_20200222T001809_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

Power scaling error

There is an error in the scaling of the L1B waveform for one or more

records

### 4.6 L1B Waveform Group Data Check

CS\_OFFL\_SIR\_IOPM1B\_20200222T110905\_20200222T111759\_C001

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

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

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200222T100400_20200222T101532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200222T135352_20200222T135437_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T000647_20200222T001110_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T040733_20200222T040808_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T081400_20200222T081911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T112336_20200222T112945_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T122317_20200222T122531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T171551_20200222T171633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T203143_20200222T203419_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T220839_20200222T221254_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T221407_20200222T221512_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T234840_20200222T235126_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200222T235126_20200222T235410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T073017_20200222T073646_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T103717_20200222T104220_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T112210_20200222T112238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T121710_20200222T121834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T122531_20200222T122621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T170527_20200222T170634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T185621_20200222T190717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T204508_20200222T204737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200222T234753_20200222T234840_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:
 0

#### 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors 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.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200222T101639_20200222T101709_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200222T135352_20200222T135437_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T003925_20200222T004433_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T013921_20200222T014137_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T021716_20200222T022255_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T035528_20200222T035949_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200222T044849_20200222T045014_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T053719_20200222T053912_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T062820_20200222T062945_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T063459_20200222T063801_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T080821_20200222T081126_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T081400_20200222T081911_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T090504_20200222T090852_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200222T094838_20200222T095112_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T104348_20200222T104505_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T104715_20200222T105001_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200222T112336_20200222T112945_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T122317_20200222T122531_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T130557_20200222T130738_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T140239_20200222T140724_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T154317_20200222T154708_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T162516_20200222T162905_C001	Intern Sea Surface (1), Intern Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (EES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200222T172617_20200222T172743_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200222T180457_20200222T180811_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T181323_20200222T181440_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T195229_20200222T195343_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T203143_20200222T203419_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200222T203440_20200222T203604_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOPN_2_20200222T220839_20200222T221254_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200222T221407_20200222T221512_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T230804_20200222T231035_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200222T234840_20200222T235126_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200222T235126_20200222T235410_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T004433_20200222T004957_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T022255_20200222T022727_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T022727_20200222T023211_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T035949_20200222T040732_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T053913_20200222T054552_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T054552_20200222T054900_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T071735_20200222T072451_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T072451_20200222T072704_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T085912_20200222T090346_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T090346_20200222T090503_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T103717_20200222T104220_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T104220_20200222T104348_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T121856_20200222T122317_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T135438_20200222T135441_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200222T135441_20200222T135814_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200222T135831_20200222T140239_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T153258_20200222T154316_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T170527_20200222T170634_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200222T171633_20200222T172422_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T185621_20200222T190717_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T203604_20200222T203616_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T203616_20200222T204348_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T221512_20200222T222035_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200222T231035_20200222T231257_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20200222T234352_20200222T234447_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20200222T235410_20200223T000109_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

#### 5.5 L2 Measurement Confidence Data Check

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

## Number of products with errors: 2

Product	Test Failed	Presentation
Product	Test Falled	Description
CS_OFFL_SIR_IOPM_2_20200222T001111_20200222T001809_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20200222T110905_20200222T111759_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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CS_OFFL_SIR_JOPM_2_2000227101111_20200227101809_0001       Ocean Altimeter Range, SSHA, SWH       The Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the COOC Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the Cooc Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at Backscatt	Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200222T00233_20200222T00304_C001       and Backscatter Quality COCG       Attimuter Range and Backscatter Quality Flags have been         CS_OFFL_SIR_IOPM_2_20200222T010628_2020022T010209_C001       Coen Attimuter Range SSHA, SWH       The Oeen Attimuter Range SSHA, SWH         CS_OFFL_SIR_IOPM_2_20200222T010628_2020022T010628_00001       Coen Attimuter Range SSHA, SWH       The Oeen Attimuter Range Assessment Coulity Flags have been         CS_OFFL_SIR_IOPM_2_20200222T010628_000022T010209_C001       Coen Attimuter Range SSHA, SWH       The Oeen Attimuter Range Assessment Coulity Flags have been         CS_OFFL_SIR_IOPM_2_20200222T013629_C0010       COCGA Attimuter Range Assessment Coulity Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T013640_2020022T013620_C0011       COCGA Attimuter Range Assessment Coulity COCG       The OCCGA Attimuter Range Assessment Coulity Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T013640_202022T013620_C0011       COCGA Attimuter Range Assessment Coulity COCG       The OCCGA Attimuter Range Assessment Coulity Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T013640_202022T013620_C0011       COCGA Attimuter Range Assessment Range Ass	CS_OFFL_SIR_IOPM_2_20200222T001111_20200222T001809_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20200222T003008_20200222T003554_0001       and Backscatter Quality, COCG Attimeter Range and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20200222T013232_20200222T013232_20200222T013232_20200222T013232_20200222T013232_20200222T013232_20200222T013232_20200222T013232_20200222T013232_0001       OCGO Attimeter Range Quality, OCOG Backscatter Quality       The OCGA Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20200222T013232_20200222T013232_0001       OCGO Attimeter Range Quality, OCOG Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20200222T014225_020022T02102_0001       OCGA Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20200222T024312_0200222T023302_0001       OCGA Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20200222T024312_0200222T03538_C001       OCGA Attimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T002233_20200222T002722_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T01688_20200222T013919_C001       and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality. OCOG Backscatter Quality. OCOG Altimeter Range Quality. OCOG Backscatter Quality. OCOG Altimeter Range. SNA. SWH and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T014225_0200222T014225_0200222T02100_C001       OCOG Altimeter Range. SNA. SWH and Backscatter Quality. Flags and the OCOG Altimeter Range and Backscatter Quality. Flags and the OCOG Altimeter Range. SNA. SWH and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T023211_02000222T02302_C001       OCOG Altimeter Range. SNA. SWH and Backscatter Quality. OCOG Backscatter Quality. OCOG Backscatter Quality. OCOG Altimeter Range. SNA. SWH and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T024312_0200222T033046_C001       OCOG Altimeter Range and Backscatter Quality. OCOG Backscatter Quality. OCOG Backscatter Quality. COCOG Backscatter Quality. COCO Backscatter Qua	CS_OFFL_SIR_IOPM_2_20200222T003006_20200222T003554_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T013640_20200222T013820_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T013640_20200222T013820_C001       DCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T014225_20200222T012102_C001       Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T023211_20200222T02302_C001       OCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T023121_20200222T02302_C001       OCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T024312_20200222T03846_C001       Onean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001       OCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031642_0200222T031533_C001       OCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041826_C001       OCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range, SHA, SWH and Backs	CS_OFFL_SIR_IOPM_2_20200222T010628_20200222T012919_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T014225_20200222T021020_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T014225_20200222T021020_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records.       The Ocean Altimeter Range and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T023211_20200222T023302_C001       OCOG Altimeter Range Quality. OCOG Altimeter Range and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T024312_20200222T030846_C001       Ocean Altimeter Range Quality. OCOG Altimeter Range and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001       Ocean Altimeter Range Quality. OCOG Altimeter Range and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T032147_20200222T035528_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041822_20200222T041826_C001       Ocean Altimeter Range Quality. OCCG Altimeter Range and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041822_20200222T041822_0200222T041822_0200222T041822_0200222T041822_0200222T041822_0200222T041822_0200222T041822_0200222T041822_0200222T041822_0200222T041822_020022ZT041822_020022ZT041822_	CS_OFFL_SIR_IOPM_2_20200222T013232_20200222T013619_C001		
CS_OFFL_SIR_IOPM_2_20200222T014225_20200222T014225_20200222T014225_20200222T023302_C001       and Backscatter Quality, OCCG Attimeter Range and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T023311_20200222T023302_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T024312_20200222T030846_C001       Ocean Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality       The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T03147_20200222T035528_C001       OCCG Altimeter Range, SHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041822_20200222T041826_C001       OCCG Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041822_0200222T041826_C001       OCCG Altimeter Range, SHA, SWH and Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044825_20200222T044834_C001       Ocean Altime	CS_OFFL_SIR_IOPM_2_20200222T013640_20200222T013920_C001		
CS_OFFL_SIR_IOPM_2_20200222T04312_20200222T030846_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T024312_20200222T030846_C001       Cean Atlimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality       The Ocean Atlimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001       OCOG Atlimeter Range Quality, OCOG Backscatter Quality       The OCOG Atlimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T032147_20200222T035528_C001       Ocean Atlimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Atlimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20200222T031632_C001       Ocean Atlimeter Range and Backscatter Quality       The Ocean Atlimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20200222T041622_20200222T041826_C001       OCCG Atlimeter Range Quality, OCCG Backscatter Quality       The OCCG Atlimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_0200222T041823_C001       OCCG Atlimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and the OCCG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_0200222T044834_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCO	CS_OFFL_SIR_IOPM_2_20200222T014225_20200222T021020_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T024312_20200222T030846_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T032147_20200222T035528_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041622_20200222T041826_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T041823_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T044834_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and t	CS_OFFL_SIR_IOPM_2_20200222T023211_20200222T023302_C001		
CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031535_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T032147_20200222T035528_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041622_20200222T041826_C001       OCOG Attimeter Range Quality, OCOG Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T041826_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range, and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range, and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and the OCOG Attimeter Range, and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.       The Ocean Attimeter Range and Backscatter Quality Flags have been s	CS_OFFL_SIR_IOPM_2_20200222T024312_20200222T030846_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T032147_20200222T035528_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041622_20200222T041826_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T041832_20200222T043823_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T044834_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Q	CS_OFFL_SIR_IOPM_2_20200222T031014_20200222T031533_C001		
CS_OFFL_SIR_IOPM_2_20200222T041022_200222T041022_2000222T041020_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T043823_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nave been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nave been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nave been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags nave been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T045014_20200222T045809_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T032147_20200222T035528_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T043823_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       Ocean Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T045014_20200222T045809_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T041622_20200222T041826_C001		
CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T045014_20200222T045809_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T041832_20200222T043823_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T044205_20200222T044834_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20200222T045014_20200222T045809_C001		
CS_OFFL_SIR_IOPM_2_20200222T050112_20200222T053513_C001 Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T050112_20200222T053513_C001		
CS_OFFL_SIR_IOPM_2_20200222T054900_20200222T054945_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T054900_20200222T054945_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T055424_20200222T055659_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Cocog Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T055424_20200222T055659_C001		
CS_OFFL_SIR_IOPM_2_20200222T061612_20200222T062817_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T061612_20200222T062817_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200222T062946_20200222T063459_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality COCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200222T062946_20200222T063459_C001		

CS_OFFL_SIR_IOPM_2_20200222T076400_020200222T070310_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality GCG and the OCGG Attimeter Range and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T070556_20200222T071529_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T070556_20200222T071529_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Flag and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flag set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T07274_20200222T072735_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T072843_20200222T073017_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T075266_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T075206_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T080721_C001       Docean Atlimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       DOcean Atlimeter Range, SSHA, SWH and Backscatter Quality Flag set for one or more records.         CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T081400_C001       Docean Atlimeter Range ASHA, SWH and Backscatter Quality Flag set for one or mo	IN A NE DEEN IN A
CS_OFFL_SIR_IOPM_2_20200222T070556_20200222T071529_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20200222T072704_20200222T072735_C001       Cean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flag Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flag Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flag Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flag Altimeter Range and Backscatter Quality, Flag Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flag Altineter Range Altimeter Range, SSHA, SWH </td <td>uality Flags shave been uality Flags shave been uality Flags shave been shave been uality Flags</td>	uality Flags shave been uality Flags shave been uality Flags shave been shave been uality Flags
CS_OFFL_SIR_IOPM_2_20200222T072704_20200222T072735_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range, SSHA, SWH         CS_OFFL_SIR_IOPM_2_20200222T072843_20200222T073017_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T072843_20200222T073017_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T074600_20200222T075206_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T075354_20200222T080721_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       OCOGA Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags h         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       OCOGA Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags h         OCOGA Altimeter Range, SSHA, SWH       OCOGA Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags h         Ocoean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags h <td>uality Flags uality Flags s have been uality Flags is have been uality Flags</td>	uality Flags uality Flags s have been uality Flags is have been uality Flags
CS_OFFL_SIR_IOPM_2_20200222T072843_20200222T073017_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T074600_20200222T075206_C001       Ocean Altimeter Range, SSHA, SWH       and the OCOG Altimeter Range, SSHA, SWH         CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T075354_20200222T080721_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       Ocean Altimeter Range Quality, OCOG       The Ocean Altimeter Range and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       OCOG Altimeter Range Quality, OCOG       The Ocean Altimeter Range and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags h         Ocean Altimeter Range, SSHA, SWH       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags h	uality Flags s have been uality Flags uality Flags
CS_OFFL_SIR_IOPM_2_20200222T074600_2020222T075206_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T080721_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       Ocean Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flag         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flag         OCCean Altimeter Range, SSHA, SWH       OCOG Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flag	is have been wality Flags
CS_OFFL_SIR_IOPM_2_20200222T075354_20200222T080721_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality flag         CS_OFFL_SIR_IOPM_2_20200222T081126_20200222T081400_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flag         Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH	
Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Q	s have been
	ave been set
CS_OFFL_SIR_IOPM_2_20200222T082007_20200222T085110_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T090941_20200222T094135_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Set for one or more records.	
CS_OFFL_SIR_IOPM_2_20200222T095112_20200222T095307_C001 OCOG Altimeter Range Quality, OCOG for one or more records.	ave been set
CS_OFFL_SIR_IOPM_2_20200222T095508_20200222T095811_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags h for one or more records.	ave been set
CS_OFFL_SIR_IOPM_2_20200222T095934_20200222T100345_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T100400_20200222T101532_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T101713_20200222T102819_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T104505_20200222T104715_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags h for one or more records.	ave been set
CS_OFFL_SIR_IOPM_2_20200222T105001_20200222T105155_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality and the OCOG Attimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T105428_20200222T110614_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T112239_20200222T112336_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T113243_20200222T113711_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags h for one or more records.	ave been set
CS_OFFL_SIR_IOPM_2_20200222T113903_20200222T115357_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T123229_20200222T123820_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T124103_20200222T130516_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T130738_20200222T131619_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags h for one or more records.	ave been set
CS_OFFL_SIR_IOPM_2_20200222T131826_20200222T134336_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T141539_20200222T144415_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag	
CS_OFFL_SIR_IOPM_2_20200222T144706_20200222T144839_C001 OCOG Altimeter Range Quality, OCOG for one or more records.	ave been set
CS_OFFL_SIR_IOPM_2_20200222T144953_20200222T145413_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags h for one or more records.	ave been set

CS_OFFL_SIR_IOPM_2_20200222T145704_20200222T152511_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T152603_20200222T152732_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T155100_20200222T162320_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T162906_20200222T163452_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T163613_20200222T164235_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T164611_20200222T165318_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T172744_20200222T180242_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T180811_20200222T181323_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T181502_20200222T181810_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T181910_20200222T183429_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T185255_20200222T185315_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T190717_20200222T191620_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T191905_20200222T194121_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T194632_20200222T194811_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T194817_20200222T195228_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T195436_20200222T201639_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T201719_20200222T202153_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T202326_20200222T202951_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T204838_20200222T205146_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T205213_20200222T212019_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T212145_20200222T212709_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T213441_20200222T213457_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T213814_20200222T215041_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T215142_20200222T220839_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T223221_20200222T224140_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T224344_20200222T225922_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T230112_20200222T230607_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20200222T230645_20200222T230804_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T231458_20200222T232552_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200222T233208_20200222T234352_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T001810_20200222T002233_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T085856_20200222T085912_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T095307_20200222T095507_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T141501_20200222T141539_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T195229_20200222T195343_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T063801_20200222T064020_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T085110_20200222T085139_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T120015_20200222T120247_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T135441_20200222T135814_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T184756_20200222T185041_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T185316_20200222T185556_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T223020_20200222T223221_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

> Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200222T000647_20200222T001110_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T001810_20200222T002233_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T003925_20200222T004433_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T010032_20200222T010431_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T012919_20200222T013232_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T013921_20200222T014137_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T021716_20200222T022255_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T023302_20200222T023425_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T023908_20200222T024040_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS OFFL SIR IOPN 2 20200222T024219 20200222T024312 C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
	OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	more records.
CS_OFFL_SIR_IOPN_2_20200222T030846_20200222T031013_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T031905_20200222T032027_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T035528_20200222T035949_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T045809_20200222T045922_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T054945_20200222T055020_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T055129_20200222T055242_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T055659_20200222T055710_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T060527_20200222T060712_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T062820_20200222T062945_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T063459_20200222T063801_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T074402_20200222T074600_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T080821_20200222T081126_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T090504_20200222T090852_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T095811_20200222T095934_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T102819_20200222T103055_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T104348_20200222T104505_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T104715_20200222T105001_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T112336_20200222T112945_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T113711_20200222T113853_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T122622_20200222T122850_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T134336_20200222T134608_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T134654_20200222T134814_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T140239_20200222T140724_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T154317_20200222T154708_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T162516_20200222T162905_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T163452_20200222T163613_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20200222T165318_20200222T165513_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T170010_20200222T170115_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T171319_20200222T171358_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T183429_20200222T183601_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T194214_20200222T194631_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T195229_20200222T195343_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T203440_20200222T203604_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T212949_20200222T213135_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T220839_20200222T221254_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T221407_20200222T221512_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T222825_20200222T223020_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T231257_20200222T231423_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T232727_20200222T233207_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T234504_20200222T234627_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T234840_20200222T235126_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200222T235126_20200222T235410_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T003716_20200222T003924_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T004433_20200222T004957_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T010518_20200222T010628_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T014137_20200222T014224_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T022727_20200222T023211_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T035949_20200222T040732_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T041030_20200222T041226_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T053913_20200222T054552_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T054552_20200222T054900_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T061322_20200222T061612_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T063801_20200222T064020_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20200222T071735_20200222T072451_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T072451_20200222T072704_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T073017_20200222T073646_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T085912_20200222T090346_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T090346_20200222T090503_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T103717_20200222T104220_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T104220_20200222T104348_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T105155_20200222T105428_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T110615_20200222T110827_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T120015_20200222T120247_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T121710_20200222T121834_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T121856_20200222T122317_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T122531_20200222T122621_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T122850_20200222T123107_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T123820_20200222T123941_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T135441_20200222T135814_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T153258_20200222T154316_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T170146_20200222T170431_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T170527_20200222T170634_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T171020_20200222T171055_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T171443_20200222T171551_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T171633_20200222T172422_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T172534_20200222T172556_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T180242_20200222T180456_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T185621_20200222T190717_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T195343_20200222T195436_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T203102_20200222T203142_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20200222T203616_20200222T204348_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T204508_20200222T204737_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T204740_20200222T204838_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T215041_20200222T215141_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T221512_20200222T222035_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200222T222607_20200222T222625_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products, v	which are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for p	roducts over sea ice, which is to be expected.	
Number of products with errors: 201		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measu		
oryona Le data molutos an ocean renaching quality hay for each 20-D2 measu	rement record. The bit value of this flag indica	ates any problems when set.
Ocean Retracking Quality Flag: This flag is currently set for products over land	-	
	-	
Ocean Retracking Quality Flag: This flag is currently set for products over land           Number of products with errors:         61	-	
Ocean Retracking Quality Flag: This flag is currently set for products over land	d and sea ice, but this is to be expected. The r	number of products with this error flag set is given below.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag	number of products with this error flag set is given below.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag	number of products with this error flag set is given below.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6. IOP L2	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6. IOP L2         6.1 P2P Product Format Check	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products.         Number of products with errors:       152         6. IOP L2         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to end	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6. IOP L2         6.1 P2P Product Format Check	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products.         Number of products with errors:       152         6. IOP L2         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to end	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b>	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected.
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6. IOP L2         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to en         Number of products with errors:       0	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b> sure it consists of both an XML header file (.F	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected. Check DR) and a NetCDF product file (.nc).
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6.1 OP L2         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to en Number of products with errors:         0         6.2 P2P Product Header Analysis	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b> sure it consists of both an XML header file (.F	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected. Check DR) and a NetCDF product file (.nc).
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6.1 OP L2         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to en         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 the secience of the method of the secience of the method of the metho	d and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b> sure it consists of both an XML header file (.F	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected. Check DR) and a NetCDF product file (.nc).
Ocean Retracking Quality Flag: This flag is currently set for products over land         Number of products with errors:       61         L2 Retracking Flags (20Hz, PLRM)         CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM         Ocean Retracking Quality Flag (PLRM): This flag is currently set for products         Number of products with errors:       152         6.1 OP L2         6.1 P2P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to en 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 the Number of products with errors:         0	and sea ice, but this is to be expected. The r measurement record. The bit value of this flag IOPR and IOPN products over sea ice, but thi <b>Pole-to-Pole Data Quality</b> sure it consists of both an XML header file (.P SPH in order to identify any inconsistencies an	number of products with this error flag set is given below. g indicates any problems when set. s is to be expected. DR) and a NetCDF product file (.nc).

#### 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).

Currently, there are some common auxiliary correction errors 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.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20200221T235716_20200222T004654_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T004654_20200222T013630_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T013630_20200222T022608_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T022608_20200222T031544_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T031544_20200222T040521_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20200222T040521_20200222T045457_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220200222T045457_20200222T054435_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T054435_20200222T063411_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T063411_20200222T072348_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T072348_20200222T081324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T081324_20200222T090302_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T090302_20200222T095238_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220200222T095238_20200222T104216_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T104216_20200222T113151_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20200222T113151_20200222T122129_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T122129_20200222T131105_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T131105_20200222T140043_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T140043_20200222T145018_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T145018_20200222T153956_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T153956_20200222T162932_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200222T162932_20200222T171910_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T171910_20200222T180846_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20200222T180846_20200222T185824_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200222T185824_20200222T194759_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T194759_20200222T203737_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200222T203737_20200222T212713_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T212713_20200222T221651_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20200222T221651_20200222T230626_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200222T230626_20200222T235604_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220200222T235604_20200223T004540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200221T235716_20200222T004654_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220200222T104216_20200222T113151_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 6.6 P2P Measurement Quality Flag Check

## P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

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P2P Quality Flags (20Hz PLRM)	
Since the P2P Quality Flags are copied dire	actly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	29
P2P Quality Flags (1 Hz & 1Hz PL	RM)
Since the P2P Quality Flags are copied dire	ectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
6.8 P2P Ocean Retracking Qua	lity Check
P2P Retracking Flags (20Hz)	
Cryosat P2P data includes an ocean retrackin	g quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): Thi	s flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.
Number of products with errors:	29
P2P Retracking Flags PLRM	
CryoSat L2 data includes an ocean retracking	quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): Thi	s flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.
Number of products with errors:	30