

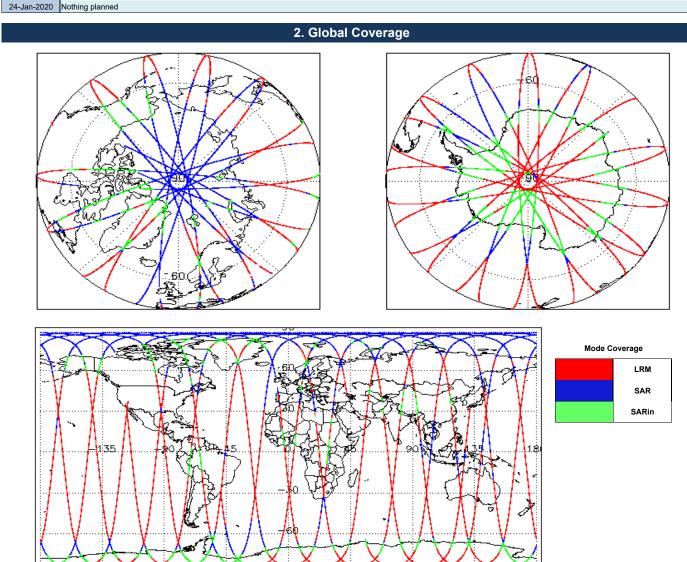
# **QA4EO Daily Report for IOP data:**

23/01/2020

an aut Duaduation.	27-Jan-2020	Check	L1 & L2	P2P
Report Production:	27-Jan-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	0.010.0	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		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

1. Overview

wission / mstrument wews				
22-Jan-2020	None			
23-Jan-2020	None			



# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any incons	istencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1E OSARIn chains. A modification is required in the next release.	B 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-	e-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 recorr	d. 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 measuren	ment record. The bit value of this flag	indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ	ucts due to a configuration issue. This	s is being investigated and will be updated in the next SW update.
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200123T005934_20200123T011114_C001	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

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.

20

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200123T001107_20200123T002639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200123T005934_20200123T011114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200123T123005_20200123T123112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200123T123312_20200123T124234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200123T153418_20200123T155926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200123T174953_20200123T175127_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T011925_20200123T012135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T035550_20200123T035733_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T053451_20200123T053631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T081134_20200123T081259_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T125942_20200123T130048_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T132202_20200123T132728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T161213_20200123T161243_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200123T180113_20200123T180455_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200123T062639_20200123T062850_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200123T063247_20200123T063434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200123T125259_20200123T125458_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200123T152107_20200123T152219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200123T191830_20200123T192206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200123T225144_20200123T225858_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.

51

> 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.

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200123T121547_20200123T122848_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_20200123T003533_20200123T003801_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_20200123T011559_20200123T011910_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20200123T011925_20200123T012135_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_20200123T021438_20200123T021817_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_20200123T025606_20200123T025958_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_20200123T030507_20200123T030542_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_20200123T035550_20200123T035733_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_20200123T071146_20200123T071501_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_20200123T080257_20200123T080351_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_20200123T084423_20200123T084537_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_20200123T085042_20200123T085359_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_20200123T102516_20200123T102754_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_20200123T102946_20200123T103532_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_20200123T112031_20200123T112151_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_20200123T120331_20200123T120651_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_20200123T125942_20200123T130048_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_20200123T134247_20200123T134447_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_20200123T143855_20200123T143939_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_20200123T170139_20200123T170259_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_20200123T184127_20200123T184453_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_20200123T194007_20200123T194240_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_20200123T211009_20200123T211242_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20200123T220756_20200123T220916_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_20200123T225039_20200123T225144_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_20200123T234505_20200123T234705_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_20200123T003801_20200123T004032_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_20200123T011114_20200123T011222_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_20200123T012136_20200123T012832_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_20200123T014212_20200123T015028_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_20200123T025958_20200123T030507_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_20200123T043723_20200123T044527_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_20200123T061604_20200123T062335_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_20200123T062639_20200123T062850_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_20200123T063247_20200123T063434_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_20200123T075113_20200123T080133_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_20200123T080133_20200123T080257_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_20200123T093326_20200123T094032_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_20200123T094032_20200123T095534_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_20200123T111315_20200123T111849_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_20200123T111849_20200123T112031_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_20200123T120151_20200123T120331_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_20200123T125259_20200123T125458_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_20200123T125504_20200123T125651_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_20200123T125651_20200123T125941_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_20200123T143323_20200123T143854_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_20200123T161410_20200123T161912_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_20200123T175127_20200123T180113_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_20200123T193154_20200123T194007_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_20200123T211242_20200123T212026_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_20200123T225144_20200123T225858_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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200123T005934_20200123T011114_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.

1

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

79

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200122T235932_20200123T000903_C001		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_20200123T001107_20200123T002639_C001		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_20200123T002837_20200123T003334_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_20200123T004232_20200123T005454_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_20200123T005934_20200123T011114_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_20200123T011351_20200123T011508_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_20200123T015028_20200123T020535_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_20200123T020804_20200123T021247_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_20200123T021310_20200123T021319_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_20200123T021901_20200123T024604_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_20200123T031958_20200123T034054_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_20200123T034144_20200123T034532_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_20200123T034823_20200123T035201_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_20200123T035815_20200123T042655_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_20200123T045455_20200123T052437_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_20200123T052619_20200123T053114_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_20200123T053849_20200123T061254_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_20200123T062850_20200123T062854_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_20200123T064011_20200123T064313_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_20200123T065804_20200123T065927_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_20200123T070126_20200123T070416_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_20200123T070617_20200123T071146_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_20200123T071741_20200123T075112_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_20200123T080438_20200123T080614_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_20200123T082356_20200123T084329_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_20200123T084537_20200123T085042_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_20200123T085642_20200123T093000_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_20200123T095534_20200123T101818_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_20200123T103632_20200123T104847_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_20200123T105008_20200123T105135_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_20200123T105139_20200123T105406_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_20200123T105847_20200123T110714_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_20200123T112559_20200123T114304_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_20200123T114503_20200123T115927_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_20200123T120651_20200123T120857_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_20200123T120951_20200123T121359_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_20200123T121547_20200123T122848_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_20200123T123005_20200123T123112_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_20200123T123312_20200123T124234_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_20200123T124816_20200123T124826_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_20200123T131105_20200123T132202_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_20200123T132728_20200123T134154_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_20200123T134447_20200123T135301_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_20200123T135519_20200123T141120_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_20200123T141453_20200123T141949_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_20200123T142453_20200123T142514_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_20200123T144703_20200123T145316_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_20200123T145358_20200123T152107_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_20200123T152337_20200123T152540_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_20200123T152619_20200123T153133_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_20200123T153418_20200123T155926_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_20200123T163157_20200123T165859_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_20200123T170544_20200123T171149_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_20200123T180455_20200123T183831_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_20200123T184453_20200123T185019_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_20200123T185220_20200123T185810_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.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20200123T192858_20200123T193122_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_20200123T194432_20200123T195254_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_20200123T195538_20200123T201801_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_20200123T202351_20200123T202457_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_20200123T202500_20200123T202909_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_20200123T203112_20200123T205044_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_20200123T212122_20200123T212133_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_20200123T212258_20200123T215632_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_20200123T215915_20200123T220354_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_20200123T220413_20200123T220756_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_20200123T221455_20200123T224622_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_20200123T224800_20200123T225039_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_20200123T230626_20200123T231331_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_20200123T231813_20200123T232025_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_20200123T232101_20200123T233548_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_20200123T233735_20200123T234252_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_20200123T235307_20200124T000631_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_20200123T170139_20200123T170259_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_20200123T234324_20200123T234327_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_20200123T025958_20200123T030507_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_20200123T130848_20200123T131105_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_20200123T165900_20200123T170139_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_20200123T171313_20200123T171319_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.

## 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.

82

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Number of products with errors:
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Product	Test Failed	Description
	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.

10.333     10.333 <th>CS_OFFL_SIR_IOPN_2_20200123T005540_20200123T005934_C001</th> <th>OCOG Altimeter Range Quality PLRM,</th> <th>The OCOG Range and Backscatter Quality Flags have been set for one or</th>	CS_OFFL_SIR_IOPN_2_20200123T005540_20200123T005934_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
all, OPE, LER, LER, 2, 2000 12700148, 2020 12700140, DDD     and DPE, LER, LER, 2, 2000 12700148, 2020 12700140, DDD       all, OPE, LER, LER, 2, 2000 12700148, 2020 12700140, DDD     COD Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, 2, 2000 12700140, 2020 12700140, DDD     COD Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, 2, 2000 12700140, 2020 12700140, DDD     COD Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, 2, 2000 12700140, 2020 12700140, DDD     COD Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, 2, 2000 12700140, DDD     COD Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, 2, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, RED, 2000 12700140, DDD     COD Coll Attachme (Exp. Call) P.R.D.       all, OPE, LER, LER, LER, 2, 2000 12700140, RED, 20		OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	more records.
BL 2011, DR 2011, PR 2011	CS_OFFL_SIR_IOPN_2_20200123T011559_20200123T011910_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CPUT_DPL_CHOP_COLUMN_TIMENT_COLUMN_	CS_OFFL_SIR_IOPN_2_20200123T020546_20200123T020804_C001		
C2 OFL SR. OPL 2 RE2012/102682 220012/102762 0001 Whether Server Calls, MARCON, Lindow RM, Colon, Lind	CS_OFFL_SIR_IOPN_2_20200123T034553_20200123T034823_C001		
Op 071, Sim On F. 2000 (251 eVector) 2001 (251 eVector) 2001     OCCO Besistenitie Guilty     In more models.       C2, GEF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenitie Guilty Flags have been set for one or more models.       C3, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenitie Guilty Flags have been set for one or more models.       C4, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenitie Guilty Flags have been set for one or more models.       C4, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenitie Guilty Flags have been set for one or more models.       C4, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenitie Guilty Flags have been set for one or more models.       C4, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenitie Guilty Flags have been set for one or more models.       C5, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenite Guilty Flags have been set for one or more models.       C6, GPF, Sim JOPN, 2, 2000 (251 eVector) 2014 (2000 (251 eVector) 2014)     OCCO Attracts Range Guilty PLRM.     The OCCO Range and Basistenite Guilty Flags have	CS_OFFL_SIR_IOPN_2_20200123T035550_20200123T035733_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control         Control <t< td=""><td>CS_OFFL_SIR_IOPN_2_20200123T044527_20200123T044549_C001</td><td></td><td></td></t<>	CS_OFFL_SIR_IOPN_2_20200123T044527_20200123T044549_C001		
CB, DHL, SH, DHL, Z. 2020123104518, 2020123104528, 2020123104518, 2020123104528, 2020123104518, 2020123104528, 2020123	CS_OFFL_SIR_IOPN_2_20200123T061254_20200123T061408_C001		
CS_0FFL_SFL_0FFL_2_00001231104488_2_0001         DCC6 Backscatter Cality         more record.           CS_0FFL_SFL_0FFL_2_00001231101448_20000123110117_C001         DCC6 Backscatter Cality FLMM, DCC6 Backscatter Cality FLMM, FLMM         more record.           CS_0FFL_SFL_0FFL_2_0000123110146_20000123110116_C001         DCC6 Backscatter Cality FLMM, FLMM         more record.           CS_0FFL_SFL_0FFL_2_0000123110116_200001231001501_C001         DCC6 Backscatter Cality FLMM, FLMMM         more cond.           CS_0FFL_SFL_0FFL_2_00001231100103_200001231001529_C001         DCC6 Backscatter Cality FLMM, FLMMM         more cond.           CS_0FFL_SFL_0FFL_2_00001231001032_00001231001230_00001231001230_00001231001230_00001231001230_0000123110230_0001231001230_0000123110230_000123110	CS_OFFL_SIR_IOPN_2_20200123T064313_20200123T064452_C001		5 , 5
Corport         Corport <t< td=""><td>CS_OFFL_SIR_IOPN_2_20200123T064508_20200123T064832_C001</td><td></td><td></td></t<>	CS_OFFL_SIR_IOPN_2_20200123T064508_20200123T064832_C001		
CB_OFFL_SIR_UOPN_2_0020123T07114_20200123T07100_000       and Backsatter Quality PLAN_OCCO       and Backsatter Quality PLAN_OCCO         CB_OFFL_SIR_UOPN_2_0020123T080139_02200123T080759_C001       QCCO Alimeter Range Databacter Quality PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0020123T081134_0200123T081259_C001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0020123T081134_000123T08256_C001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0020123T082159_C001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0020123T082159_C001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0200123T102845_02001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0200123T102845_02001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.         CB_OFFL_SIR_UOPN_2_0200123T102845_0001       QCCO Alimeter Range Datity PLAN_OCCO       The CCOC Range and Backsatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPN_2_20200123T070456_20200123T070617_C001		
OC_PPT_SIR_JOPN_2_202001231106032_0020131100032_0001         OCOO Backscatter Quality         The COOO Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_20200123106132_00201231062590_0001         OCOO Backscatter Quality         The COOO Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_202001231062590_0001         OCOO Backscatter Quality         The COOO Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_202001231062590_0001         OCOO Backscatter Quality         The COOO Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_202001231102540_202001231102542_0001         OCOO Backscatter Quality FLRM, OCOO Allmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_202001231112642_000012311102543_0001         Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_202001231112642_0001231110254_0001         Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_202001231112642_0001231112645_001         Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_20200123112031_2020123112065_001         Ocean Altmeter Range Quality PLRM, Oceo Altmeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPN_2_2020012	CS_OFFL_SIR_IOPN_2_20200123T071146_20200123T071501_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OPFL_SIR_JOPK_2_20001231081136_20001231081269_0001         OCC08 Backscatter Quality         Imore records.           OS_OFFL_SIR_JOPK_2_20200123108236_0001         OCC08 Altimeter Range Quality         The OFC0CR Range and Backscatter Quality Flags have been set for one or more records.           OS_OFFL_SIR_JOPK_2_20200123108236_0001         OCC08 Altimeter Range Quality PLRM.         The OFC0CR Range and Backscatter Quality Flags have been set for one or more records.           OS_OFFL_SIR_JOPK_2_202001231102340_202001231103532_C001         OCC08 Altimeter Range SSHA. SWH and Backscatter Quality Flags have been set for one or more records.         The OFC0CR Range and Backscatter Quality Flags have been set for one or more records.           OS_OFFL_SIR_JOPK_2_202001231102340_202001231112543_C001         OCC08 Altimeter Range.SSHA. SWH and Backscatter Quality Flags have been set for one or more records.           OS_OFFL_SIR_JOPK_2_202001231124263_202001231112543_C001         OCC08 Altimeter Range.SSHA. SWH and Backscatter Quality Flags have been set for one or more records.           OS_OFFL_SIR_JOPK_2_202001231120857_202001231120851_C001         OCC08 Altimeter Range Guality FLRM, OCC0           OCC08 Altimeter Range Guality FLRM, OCC0         The OCC08 Altimeter Range.SSHA. SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPK_2_202001231120857_202001231120851_C001         OCC00 Altimeter Range Guality FLRM, OCC0           OCC00 Altimeter Range Guality FLRM, OCC0         OCC00 Altimeter Range Guality FLRM, OCC0           OS_OFFL_SIR_JOPK_2_202001231130421_	CS_OFFL_SIR_IOPN_2_20200123T080639_20200123T080756_C001		
OCCOG Backscatter Quality         more records.           CS_OFFL_SIR_IOPN_2_20200123T1085042_20200123T108539_C001         OCCOG Backscatter Quality         The OCCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T102346_20200123T102532_C001         OCCOG Backscatter Quality PLRM, OCCOG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T112446_20200123T112451_C001         Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T112452_2020123T112455_C001         Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T120651_C001         Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T120651_C001         Ocean Altimeter Range Call three records.           CS_OFFL_SIR_IOPN_2_20200123T120651_C001         Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T120651_C001         Ocean Altimeter Range Call three records.           CS_OFFL_SIR_IOPN_2_20200123T120651_C001         Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_IOPN_2_20200123T120651_C001         Ocean Altimeter Range Call three records.           CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T	CS_OFFL_SIR_IOPN_2_20200123T081134_20200123T081259_C001		5 , 5
Cold Price         OCCOR         Backscatter Quality         Imore records.           CS_OFFL_SIR_IOPN_2_20200123T102946_20200123T103532_C001         OCCOR Backscatter Quality FLM, OCCOR Altimeter Range, SSHA, SWH and Backscatter Quality FLM, OCCOR Altimeter Range and Backscatter Quality FLM, OCCOR Altimeter Range and Backscatter Quality FLM, OCCOR Altimeter Range and Backscatter Quality FLM, OCCOR Altimeter Range, SSHA, SWH and Backscatter Quality FLM, OCCOR Altimeter Range and Backscatter Quality FLM, OCCOR Altinerter Range Altimeter Range, SSHA, SWH and Backscatter Quality F	CS_OFFL_SIR_IOPN_2_20200123T082129_20200123T082356_C001		5 , 5
GS_OFFL_SIR_IOPN_2_20200123T102346_20200123T103532_C001       and Backscatter Quality PLRM_OCOG       http://disconter-trainge_and Backscatter Quality Plags         GS_OFFL_SIR_IOPN_2_20200123T112426_20200123T112643_C001       Decan Allmeter Range, SSHA, SVH       ind Backscatter Quality PLRM, OCOG         GS_OFFL_SIR_IOPN_2_20200123T112426_20200123T112665_C001       Decan Allmeter Range, SSHA, SVH       ind Backscatter Quality PLRM, OCOG         GS_OFFL_SIR_IOPN_2_20200123T120651_C001       Decan Allmeter Range, SSHA, SVH       ind Backscatter Quality PLRM, OCOG         GS_OFFL_SIR_IOPN_2_20200123T120657_20200123T120651_C001       Decan Allmeter Range Game Backscatter Quality Flags       ind Backscatter Quality PLRM, OCOG         GS_OFFL_SIR_IOPN_2_20200123T120657_20200123T120651_C001       DCCGG Allmeter Range Quality PLRM, OCOG       ind Backscatter Quality PLRM, OCOG         GS_OFFL_SIR_IOPN_2_20200123T120657_20200123T120651_C001       OCCGG Allmeter Range Quality PLRM, OCOG       ind Backscatter Quality PLRM, OCOG         GS_OFFL_SIR_IOPN_2_20200123T120657_20200123T130236_C001       OCCGG Allmeter Range Quality PLRM, OCOG       ind Backscatter Quality PLRM, OCOG         CS_OFFL_SIR_IOPN_2_20200123T130138_20200123T130236_C001       OCCG Allmeter Range Guality PLRM, OCOG       ind Backscatter Quality PLRM, OCOG         Allmeter Range and Backscatter Quality Flags have been set for one or more records.       ind Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130138_20200123T130512_C001       OC	CS_OFFL_SIR_IOPN_2_20200123T085042_20200123T085359_C001		
GS_OFFL_SIR_IOPN_2_20200123T112428_0001       and Backscatter Quality PLEM. OCO: Altimeter Range and Backscatter Quality PLEM. OCO: PLEM       The Ocean Altimeter Range and Backscatter Quality Plags and Backscatter Quality PLEM. OCO: Altimeter Range and Backscatter Quality PLEM. OCO: Altimeter Range. SSHA, SWH and Backscatter Quality PLEM. OCO: Altimeter Range Quality PLEM. OCO: GCO: GB Backscatter Quality       The OCO: Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T124234_20200123T124445_C001       OCO: GB Backscatter Quality       The OCO: Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130139_2020123T130236_C001       OCO: GB Backscatter Quality       The OCO: Range and Backscatter Quality Flags and Backscatter Quality PLEM. OCO: Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags and the OCO Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_	CS_OFFL_SIR_IOPN_2_20200123T102946_20200123T103532_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20200123T120331_20200123T120651_C001       and Backscatter Quality PLRM, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T120557_20200123T120951_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T124234_20200123T124445_C001       OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130139_20200123T130236_C001       OCCGA Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130236_C001       OCCGA Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130512_C001       Occean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132728_C001       OCCGA Altimeter Range Quality PLRM, OCCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T135301_20200123T135449_C001       OCCGA Altimeter Range Quality PLRM, OCCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T135301_20200123T135449_C001       OCCGA Altimeter Range Quality PLRM, OCC	CS_OFFL_SIR_IOPN_2_20200123T112426_20200123T112543_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_202001231120657_20200123T124445_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPN_2_20200123T124234_20200123T124445_C001       OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130139_20200123T130236_C001       Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130512_C001       OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130512_C001       OCOG Attimeter Range Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132728_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T135301_20200123T135449_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T141949_20200123T142335_C001       OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T141949_20200123T142335_C001       OCOG Attimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags hav	CS_OFFL_SIR_IOPN_2_20200123T120331_20200123T120651_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_202001231124234_202001231124445_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPN_2_20200123T130139_20200123T130236_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM,       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags and 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 Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132728_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_20200123T132202_0200123T132728_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_20200123T1423301_20200123T142335_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter 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_20200123T1412435_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OF	CS_OFFL_SIR_IOPN_2_20200123T120857_20200123T120951_C001		
CS_OFFL_SIR_IOPN_2_20200123T130139_20200123T130236_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130512_C001       Ocean Attimeter Range and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130512_C001       Ocean Attimeter Range Quality PLRM, OCOG Attimeter Range and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132728_C001       OCCGG Attimeter 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_20200123T135301_20200123T135449_C001       OCOG Attimeter 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_20200123T141949_20200123T142335_C001       OCOG Attimeter 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_20200123T141949_20200123T1460025_C001       OCOG Attimeter 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_20200123T161213_20200123T161243_C001	CS_OFFL_SIR_IOPN_2_20200123T124234_20200123T124445_C001	OCOG Backscatter Quality	
CS_OFFL_SIR_IOPN_2_20200123T130421_20200123T130512_C001       and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM       The Ocean Atimeter Range and Backscatter Quality Flags ast for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132728_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_20200123T135301_20200123T135449_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_20200123T141949_20200123T142335_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_20200123T141949_20200123T142335_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_20200123T141949_20200123T142335_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_20200123T161243_20200123T160025_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T161243_20200123T161243_20200123T161243_2020123T161243_	CS_OFFL_SIR_IOPN_2_20200123T130139_20200123T130236_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132726_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPN_2_20200123T135301_20200123T135449_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_20200123T141949_20200123T142335_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_20200123T141949_20200123T142335_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_20200123T155926_20200123T160025_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_20200123T161213_20200123T161243_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_20200123T130421_20200123T130512_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20200123T141949_20200123T142335_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPN_2_20200123T141949_20200123T142335_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_20200123T155926_20200123T160025_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_20200123T161243_20200123T1610025_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20200123T161243_20200123T161243_C001       OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPN_2_20200123T132202_20200123T132728_C001		
CS_OFFL_SIR_IOPN_2_20200123T161243_20200123T16225_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_IOPN_2_20200123T155926_20200123T160025_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_20200123T161213_20200123T161243_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPN_2_20200123T135301_20200123T135449_C001		
CS_OFFL_SIR_IOPN_2_20200123T161213_20200123T161243_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_IOPN_2_20200123T141949_20200123T142335_C001		
	CS_OFFL_SIR_IOPN_2_20200123T155926_20200123T160025_C001		
	CS_OFFL_SIR_IOPN_2_20200123T161213_20200123T161243_C001		

CS_OFFL_SIR_IOPN_2_20200123T171149_20200123T171313_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_20200123T180113_20200123T180455_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_20200123T184127_20200123T184453_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_20200123T194007_20200123T194240_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_20200123T202909_20200123T203032_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_20200123T205044_20200123T205410_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_20200123T215727_20200123T215915_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_20200123T220756_20200123T220916_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_20200123T225039_20200123T225144_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_20200123T234505_20200123T234705_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_20200123T003801_20200123T004032_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_20200123T004154_20200123T004232_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_20200123T012136_20200123T012832_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_20200123T013251_20200123T013338_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_20200123T014212_20200123T015028_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_20200123T025958_20200123T030507_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_20200123T030542_20200123T030724_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_20200123T034532_20200123T034553_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_20200123T043723_20200123T044527_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_20200123T061408_20200123T061448_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_20200123T061604_20200123T062335_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_20200123T062639_20200123T062850_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_20200123T062854_20200123T062910_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_20200123T075113_20200123T080133_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_20200123T080133_20200123T080257_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_20200123T080824_20200123T081033_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_20200123T093000_20200123T093224_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.

	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_IOPR_2_20200123T093326_20200123T094032_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_IOPR_2_20200123T094032_20200123T095534_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_20200123T110835_20200123T111029_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_20200123T111315_20200123T111849_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_20200123T114304_20200123T114459_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_20200123T123112_20200123T123312_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_20200123T125259_20200123T125458_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_20200123T125504_20200123T125651_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_20200123T125651_20200123T125941_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_20200123T130236_20200123T130421_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_20200123T130512_20200123T130714_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_20200123T130848_20200123T131105_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_20200123T143200_20200123T143323_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_20200123T143323_20200123T143854_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_20200123T152107_20200123T152219_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_20200123T161007_20200123T161213_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_20200123T174756_20200123T174953_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_20200123T175127_20200123T180113_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_20200123T192457_20200123T192738_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_20200123T193154_20200123T194007_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_20200123T195254_20200123T195538_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_20200123T201801_20200123T202030_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_20200123T211242_20200123T212026_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_20200123T212133_20200123T212258_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_20200123T221228_20200123T221455_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_20200123T225144_20200123T225858_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_20200123T234705_20200123T235307_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.

L2 Quality Flags (1 Hz & 1Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products, wh	ich are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for proc	ducts over sea ice, which is to be expected.	
Number of products with errors: 183		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measured	ment 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 a	nd sea ice, but this is to be expected. The r	number of products with this error flag set is given below.
Number of products with errors: 52		
L2 Retracking Flags (20Hz, PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM me	easurement record. The bit value of this flag	g indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IO	PR and IOPN products over sea ice, but thi	s is to be expected.
Number of products with errors: 138		
6. IOP L2 F	Pole-to-Pole Data Quality	Check
6.1 P2P Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to ensu	re it consists of both an XML header file (.H	IDR) and a NetCDF product file (.nc).
Number of products with errors: 0		
6.2 P2P Product Header Analysis		
•	H in order to identify only inconsistent's a	ad/or arrars raised by the ground ecoment processing sheir
For all products, a series of pre-defined checks are performed on the MPH and SP Number of products with errors: 0	The order to ruenting any inconsistencies an	www.envisitaised by the ground-segment processing Chain.
6.3 P2P Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-det	ermined baseline and also to check the val	idity of Auxiliary Data Files is correct.
Number of products with errors: 0		
6.4 P2P Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are checke	d for the default error value (32767).	
Currently, there are some common auxiliary correction errors raised in the L		to surface type. All common flags are summarised in the list below,
followed by a table highlighting any additional issues which may arise from t > ECMWF Meteo Corrections: Currently the following corrections are not comput	ed over CONTINENTAL ICE: Dry Troposph	
and the U-Wind and V-Wind components of the ECMWF model wind vector. This is in the table below.	s a known anomaly (CRYO-COP-3) and wil	I be resolved in a future IPF update. The affected products are not reported
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for pro	ducts over sea ice, but this is to be expecte	d.
> Mean Sea Surface: The error value is currently set for products over land and set	ea ice, but this is to be expected.	
> Mean Dynamic Topography: The error value is currently set for products over la	and 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.	
Number of products with errors: 29		
Product	Test Failed Mean Sea Surface (1), Mean Dynamic	Description
CS_OFFL_SIR_IOP_220200123T003354_20200123T012328_C001	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_220200123T012328_20200123T021307_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_220200123T021307_20200123T030242_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_220200123T030242_20200123T035221_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOP_220200123T035221_20200123T044155_C001	Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1)	GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200123T044155_20200123T053135_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_20200123T053135_20200123T062109_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_220200123T062109_20200123T071048_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_2_20200123T071048_20200123T080022_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_2_20200123T080022_20200123T085002_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic
	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1)
CS_OFFL_SIR_IOP_220200123T085002_20200123T093936_C001	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_20200123T093936_20200123T102915_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

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\_\_20200123T102915\_20200123T111849\_C001

Product	Test Failed	Description
CryoSat P2P data includes a measurement confidence flag for each 20-Hz measur Number of products with errors: 1	ement record. The bit value of this flag ind	cales any problems when set.
6.5 P2P Measurement Confidence Data Check	ement record. The hit value of this flog ind	icates any problems when set
CS_OFFL_SIR_IOP_220200123T234304_20200124T003238_C002	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_220200123T225325_20200123T234304_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_220200123T220350_20200123T225325_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_220200123T211411_20200123T220350_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_220200123T202437_20200123T211411_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_220200123T193458_20200123T202437_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_220200123T184523_20200123T193458_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_220200123T175544_20200123T184523_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_20200123T170610_20200123T175544_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_220200123T161630_20200123T170610_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_220200123T152656_20200123T161630_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_220200123T143717_20200123T152656_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_220200123T134742_20200123T143717_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_220200123T125803_20200123T134742_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_220200123T120829_20200123T125803_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_220200123T111849_20200123T120829_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)

### 6.6 P2P Measurement Quality Flag Check

CS\_OFFL\_SIR\_IOP\_2\_\_20200123T003354\_20200123T012328\_C001

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.

Power scaling error

There is an error in the scaling of the L2 waveform for one or more records

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.

30

28

30

Number of products with errors:

#### P2P Quality Flags (20Hz PLRM)

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.

Number of products with errors:	28
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#### P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly fro	om the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30

Number of products with errors:

## 6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

### 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): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.