

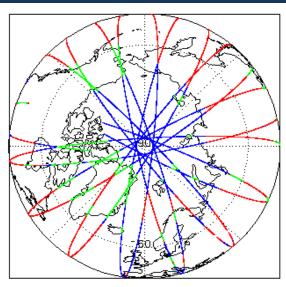
1. Overview

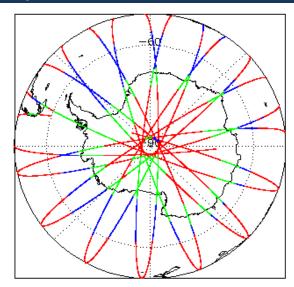
Report Production:	23-Nov-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

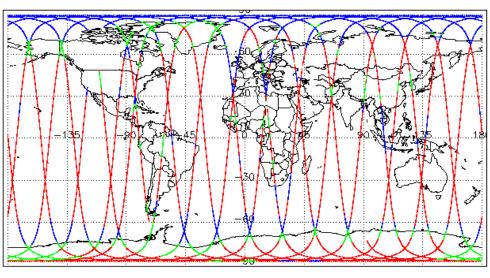
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
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
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.2

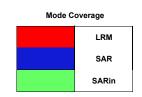
Mission / Instr	ument News
18-Nov-2020	None
19-Nov-2020	None
20-Nov-2020	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors: 26

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20201119T023401_20201119T030112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201119T030805_20201119T031049_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201119T061309_20201119T061737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201119T092753_20201119T094403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201119T132651_20201119T135105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201119T204448_20201119T205946_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201119T213335_20201119T215027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201118T235759_20201119T000257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T062853_20201119T063148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T094403_20201119T094607_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T094749_20201119T095004_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T105123_20201119T105322_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T145141_20201119T145214_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T194910_20201119T195320_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T204225_20201119T204356_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T213102_20201119T213335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T220751_20201119T221350_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201119T230726_20201119T230947_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T030233_20201119T030310_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T041036_20201119T041352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T072930_20201119T073358_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T112203_20201119T112423_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T153009_20201119T153303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T172213_20201119T172604_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T184822_20201119T185252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201119T212525_20201119T212802_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

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.
- > 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.

lumber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201119T030805_20201119T031049_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20201119T092753_20201119T094403_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20201118T235759_20201119T000257_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_20201119T022239_20201119T022446_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_20201119T040036_20201119T040355_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_20201119T040917_20201119T041036_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_20201119T053929_20201119T054249_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_20201119T054812_20201119T054936_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_20201119T062853_20201119T063148_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_IOPN_2_20201119T072632_20201119T072807_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_20201119T080948_20201119T081048_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_20201119T090404_20201119T090612_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_20201119T094749_20201119T095004_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_20201119T103421_20201119T103607_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_20201119T112424_20201119T112832_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_20201119T122349_20201119T122551_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_20201119T153303_20201119T153429_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_20201119T154218_20201119T154331_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20201119T163358_20201119T163447_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_20201119T171910_20201119T172213_C001	Mean Sea Suriace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20201119T185252_20201119T185553_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_20201119T194910_20201119T195320_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_IOPN_2_20201119T203250_20201119T203524_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_20201119T212802_20201119T212916_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_IOPN_2_20201119T213102_20201119T213335_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_20201119T220751_20201119T221350_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_20201119T230726_20201119T230947_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_20201119T231020_20201119T231208_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_20201119T235008_20201119T235157_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_20201119T013313_20201119T013821_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_20201119T030113_20201119T030221_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_20201119T030233_20201119T030310_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_20201119T030648_20201119T030805_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_20201119T031212_20201119T032020_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_20201119T045053_20201119T045928_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_20201119T063148_20201119T063848_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_20201119T081049_20201119T081632_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_20201119T095004_20201119T095652_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_20201119T112203_20201119T112423_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_20201119T112832_20201119T113353_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_20201119T130655_20201119T131651_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_20201119T144407_20201119T145141_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_20201119T162311_20201119T163002_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_20201119T163002_20201119T163253_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_20201119T180140_20201119T180902_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_20201119T180902_20201119T1811117_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_20201119T194331_20201119T194758_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_20201119T194758_20201119T194910_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_20201119T212128_20201119T212525_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_20201119T212525_20201119T212802_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_20201119T230120_20201119T230726_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

5.6 L2 Measurement Quality Flag 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:

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

88

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201119T001305_20201119T001610_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.

CO CPPL SR CPPL 2 2001119700428 2001119704900 CO 10 CPPL SR CPPL 3 2001119700500 2001119704900 CO 10 CPPL SR CPPL 3 200111970500 200111970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970500 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970490 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410 CO 10 CPPL SR CPPL 3 200111970410 CO 100011970410	CS_OFFL_SIR_IOPM_2_20201119T001612_20201119T003844_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.
Secretary Secr	CS_OFFL_SIR_IOPM_2_20201119T004238_20201119T004436_C001	0 7	
Part Delta 2, 202011197000000, 202011197004000 Delta SRR (DPM 2, 202011197001049 20201119700404 (2010) Delta SRR (DPM 2, 202011197001049 20201119700404 (2010) Delta SRR (DPM 2, 202011197001049 20201119700404 (2010) Delta SRR (DPM 2, 202011197000404 (2010) Delta SRR (DPM 2, 202011197000404 (2010) Delta SRR (DPM 2, 202011197000405 (2010) Delta SRR (DP	CS_OFFL_SIR_IOPM_2_20201119T004523_20201119T005019_C001		
Col. Colf. SRI Colf. 2,7030119701144_20201197020145 Colf.	CS_OFFL_SIR_IOPM_2_20201119T005605_20201119T011901_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Section	CS_OFFL_SIR_IOPM_2_20201119T015149_20201119T021644_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SRI_OFFL_2_20201119702382_20201119703919_C001 CB_OFFL_SRI_OFFL_2_20201119702382_20201119703919_C001 CB_OFFL_SRI_OFFL_2_20201119702382_2020119703919_C001 CB_OFFL_SRI_OFFL_2_2020119702382_2020119703919_C001 CB_OFFL_SRI_OFFL_2_2020119702382_2020119703919_C001 CB_OFFL_SRI_OFFL_2_2020119702382_2020119703919_C001 CB_OFFL_SRI_OFFL_2_20201197039232_2020119703919_C001 CB_OFFL_SRI_OFFL_2_20201197039232_2020119703919_C001 CB_OFFL_SRI_OFFL_2_20201197039232_2020119703919_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703919_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703939_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703939_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703939_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703939_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703939_C001 CB_OFFL_SRI_OFFL_2_2020119703932_2020119703939_C001 CB_OFFL_SRI_OFFL_2_20201197079392_2020119703939_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197093939_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197093939_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197093939_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_C001 CB_OFFL_SRI_OFFL_2_20201197079392_	CS_OFFL_SIR_IOPM_2_20201119T022446_20201119T023045_C001		
Se_OFFL_SIR_LOPML_2_202011197030955_202011197030919_0001 Se_OFFL_SIR_LOPML_2_202011197030955_202011197030919_0001 Se_OFFL_SIR_LOPML_2_202011197040355_202011197040917_0001 Se_OFFL_SIR_LOPML_2_202011197040355_202011197040917_0001 Se_OFFL_SIR_LOPML_2_202011197040355_202011197040917_0001 Se_OFFL_SIR_LOPML_2_202011197040355_202011197040917_0001 Se_OFFL_SIR_LOPML_2_202011197040712_20201197040955_0001 Se_OFFL_SIR_LOPML_2_202011197040712_20201197040955_0001 Se_OFFL_SIR_LOPML_2_202011197040712_20201197040955_0001 Se_OFFL_SIR_LOPML_2_202011197040712_20201197040955_0001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197050407_20001 Se_OFFL_SIR_LOPML_2_202011197054407_20001 Se_OFFL_	CS_OFFL_SIR_IOPM_2_20201119T023401_20201119T030112_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S. OFFL SIR JOPM 2 2020119T004355 2020119T04917 2001 OCS Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS Altimeter Range and Bookscater Outlify Plags have been set for one or more records. The COCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS OFFL SIR JOPM 2 2020119T041352 2020119T041355 2001 OCS Affairmeter Range and Bookscater Outlify Plags have been set for one or more records. OCS OFFL SIR JOPM 2 2020119T04172 2020119T045022 2001 OCS Affairmeter Range and Bookscater Outlify CoCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS OFFL SIR JOPM 2 2020119T050250 2020119T05190 2001 OCS Affairmeter Range and Bookscater Outlify CoCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS Affairmeter Range Outlify, OCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS Affairmeter Range Outlify, OCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS Affairmeter Range Outlify, OCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS Affairmeter Range Outlify, OCO Altimeter Range and Bookscater Outlify Plags have been set for one or more records. OCS Affai	CS_OFFL_SIR_IOPM_2_20201119T030805_20201119T031049_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sacksother Cuality CS_OFFL_SIR_IOPM_2_20201119T041932_20201119T041935_CO01 Altimoter Range, SSHA, SWH and Backscatter Quality Fligg have been after Construction of the COGA Altimoter Range and Backscatter Quality Fliggs have been after Compact and Expenses of the Cogan Altimoter Range, SSHA, SWH and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range Altimoter Range Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range Altimoter Range Altimoter Range Altimoter Range Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter Quality Fliggs have been after Cogan Altimoter Range and Backscatter	CS_OFFL_SIR_IOPM_2_20201119T032335_20201119T035619_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flackscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T05472_2020119T055112_COCI Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T055441_20201119T055412_COCI Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T055441_20201119T055412_COCI Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T05441_20201119T054585_COCI Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T05442_20201119T054585_COCI Allimeter Range Quality, COCG Backscatter Quality, COCG Backscatter Quality, COCG Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T05449_20201119T054585_COCI CS_OFFL_SIR_IOPM_2_20201119T054582_20201119T060317_COCI CS_OFFL_SIR_IOPM_2_20201119T055522_20201119T060317_COCI Allimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T055352_20201119T060317_COCI Allimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T060317_COCI Allimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T060352_20201119T060317_COCI Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T07338_20201119T07453_COCI Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T07338_2	CS_OFFL_SIR_IOPM_2_20201119T040355_20201119T040917_C001		
and the COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20201119705405_20201119705415_C001 Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20201119705440_20201119705391_C001 CS_OFFL_SIR_JOPM_2_20201119705440_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705491_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705401_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705401_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705401_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705401_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705405_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705405_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705405_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119705405_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119707453_C001 CS_OFFL_SIR_JOPM_2_20201119705405_20201119707453_C001 CS_OFFL_SIR_JOPM_2_20201119707457_20201119707453_C001 CS_OFFL_SIR_JOPM_2_20201119707457_202011197072257_C001 CS_OFFL_SIR_JOPM_2_20201119707457_202011197072257_C001 CCC_OFFL_SIR_JOPM_2_20201119707458_202011197072257_C001 CCC_OFFL_SIR_JOPM_2_20201119707358_20201119705232_C001 CCC_OFFL_SIR_JOPM_2_20201119707358_20201119705232_C001 CCC_OFFL_SIR_JOPM_2_20201119707358_20201119705232_C001 CCC_OFFL_SIR_JOPM_2_20201119705381_20201119705232_C001 CCC_OFFL_SIR_JOPM_2_20201119705381_20201119705232_C001 CCC_OFFL_SIR_JOPM_2_20201119705381_20201119705232_C001 CCC_OFFL_SIR_JOPM_2_20201119705381_20201119705433_C001 CCC_OFFL_SIR_JOPM_2_20201119705381_20201119705433_C001 CCC_OFFL_SIR_JOPM_2_20201119705381	CS_OFFL_SIR_IOPM_2_20201119T041352_20201119T041535_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202011197051441_202011197053612_C001 CS_OFFL_SIR_IOPM_2_202011197051441_202011197053612_C001 CS_OFFL_SIR_IOPM_2_202011197054442_202011197054358_C001 CS_OFFL_SIR_IOPM_2_202011197054442_202011197054358_C001 CS_OFFL_SIR_IOPM_2_202011197054405_202011197064358_C001 CS_OFFL_SIR_IOPM_2_202011197054405_202011197064358_C001 CS_OFFL_SIR_IOPM_2_202011197054405_202011197064358_C001 CS_OFFL_SIR_IOPM_2_202011197054405_202011197064101_C001 CS_OFFL_SIR_IOPM_2_202011197054405_202011197064101_C001 CS_OFFL_SIR_IOPM_2_202011197064005_20201119706317_C001 CS_OFFL_SIR_IOPM_2_202011197064005_202011197061104_C001 CS_OFFL_SIR_IOPM_2_202011197064005_20201119706104_C001 CS_OFFL_SIR_IOPM_2_202011197064005_20201119706104_C001 CS_OFFL_SIR_IOPM_2_202011197064005_202011197071455_C001 CS_OFFL_SIR_IOPM_2_202011197064005_202011197071455_C001 CS_OFFL_SIR_IOPM_2_202011197073358_202011197072037_C001 CS_OFFL_SIR_IOPM_2_202011197073358_202011197080049_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080049_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080049_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080049_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080048_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080048_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080048_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080048_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080048_C001 CS_OFFL_SIR_IOPM_2_202011197080757_202011197080048_C001 CS_OFFL_SIR_IOPM_2_202011197080757_20201119708048_C001	CS_OFFL_SIR_IOPM_2_20201119T044712_20201119T045052_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T054249_20201119T054358_C001 CS_OFFL_SIR_IOPM_2_20201119T054249_20201119T054358_C001 CS_OFFL_SIR_IOPM_2_20201119T054249_20201119T054358_C001 CS_OFFL_SIR_IOPM_2_20201119T054259_20201119T054358_C001 CS_OFFL_SIR_IOPM_2_20201119T05405_20201119T064101_C001 CS_OFFL_SIR_IOPM_2_20201119T06405_20201119T064103_C00201119T064103_C00201119T064103_C00201119T064103_C00201119T07453_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T07453_C001 CS_OFFL_SIR_IOPM_2_20201119T07454_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T07453_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T0786529_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T086529_C001 CS_OFFL_SIR_IOPM_2_20201119T080758_2001119T086548_C001 CS_OFFL_SIR_IOPM_2_20201119T080758_2001119T086548_C001 CS_OFFL_	CS_OFFL_SIR_IOPM_2_20201119T050250_20201119T051156_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Gr one or more records. CS_OFFL_SIR_IOPM_2_20201119T054405_20201119T054812_C001 CS_OFFL_SIR_IOPM_2_20201119T055352_20201119T060317_C001 CS_OFFL_SIR_IOPM_2_20201119T060352_20201119T060317_C001 CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001 CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T077157_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T0773568_20201119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T0773568_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T0805757_20201119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805458_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805458_C001 CS_OFFL_SIR_IOPM_2_20201119T0805458_C001 CS_OFFL_SIR_IOPM_2_20201119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805458_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001 CS_OFFL_SIR_IOPM_2_20201119T0805455_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C001119T080548_C001 CS_OFFL_SIR_IOPM_2_20201119T080545_C00111	CS_OFFL_SIR_IOPM_2_20201119T051441_20201119T053612_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201119T055352_20201119T060317_C001 CS_OFFL_SIR_IOPM_2_20201119T0655552_20201119T060317_C001 CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001 CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001 CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T071757_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T077757_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T0773318_20201119T072832_C001 CS_OFFL_SIR_IOPM_2_20201119T073318_20201119T0783232_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T0808415_20201119T080948_C001 CS_OFFL	CS_OFFL_SIR_IOPM_2_20201119T054249_20201119T054358_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001 CS_OFFL_SIR_IOPM_2_20201119T077757_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T077757_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T077318_20201119T072332_C001 CS_OFFL_SIR_IOPM_2_20201119T0773358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T0803515_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 CS_OFFL_	CS_OFFL_SIR_IOPM_2_20201119T054405_20201119T054812_C001		, ,
and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T071757_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T072318_20201119T072632_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T083438_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T080815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T0838	CS_OFFL_SIR_IOPM_2_20201119T055352_20201119T060317_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20201119T071757_20201119T072257_C001 CS_OFFL_SIR_IOPM_2_20201119T072318_20201119T072632_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080201_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T085438_C001 CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20201119T060505_20201119T061104_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201119T072318_20201119T072632_C001 CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T083218_20001119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T083218_20001119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T083218_20001119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T083218_20001119T08	CS_OFFL_SIR_IOPM_2_20201119T064103_20201119T071453_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201119T073358_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080529_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T085488_2001119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T085488_2001119T0854	CS_OFFL_SIR_IOPM_2_20201119T071757_20201119T072257_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001 CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T083238_C001 CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 CS_OFFL_SIR_IOPM_2_20201119T085646_20201119T080157_C001	CS_OFFL_SIR_IOPM_2_20201119T072318_20201119T072632_C001		
Backscatter Quality Ocean 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range 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_IOPM_2_20201119T073358_20201119T080529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20201119T080757_20201119T080948_C001		
CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set of one or more records. CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occurrence. The OCOG Altimeter Range and Backscatter Quality Flags have been set occurrence.	CS_OFFL_SIR_IOPM_2_20201119T082021_20201119T083238_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20201119T083815_20201119T085438_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20201119T085646_20201119T090157_C001		

CS_OFFL_SIR_IOPM_2_20201119T090234_20201119T090404_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_20201119T091149_20201119T092539_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_20201119T092753_20201119T094403_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_20201119T100722_20201119T101740_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_20201119T101919_20201119T103306_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_20201119T103608_20201119T104109_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_20201119T104116_20201119T104127_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_20201119T104945_20201119T105123_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_20201119T105322_20201119T110358_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_20201119T110559_20201119T111132_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_20201119T111415_20201119T112203_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_20201119T113913_20201119T114123_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_20201119T115019_20201119T121140_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_20201119T121645_20201119T122026_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_20201119T122048_20201119T122349_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_20201119T122741_20201119T125348_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_20201119T125351_20201119T125528_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_20201119T125825_20201119T125849_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_20201119T131833_20201119T132423_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_20201119T132651_20201119T135105_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_20201119T135428_20201119T135941_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_20201119T140726_20201119T144010_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_20201119T150246_20201119T151000_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_20201119T151602_20201119T152059_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_20201119T152618_20201119T153009_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_20201119T153429_20201119T154016_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_20201119T154756_20201119T161952_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_20201119T165513_20201119T165707_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_20201119T165734_20201119T170822_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_20201119T171358_20201119T171909_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_20201119T172604_20201119T174723_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_20201119T174915_20201119T180140_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_20201119T181117_20201119T181329_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_20201119T182055_20201119T182229_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_20201119T182912_20201119T184822_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_20201119T185553_20201119T185812_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_20201119T190542_20201119T193904_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_20201119T195357_20201119T201258_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_20201119T201324_20201119T202624_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_20201119T203525_20201119T203722_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_20201119T204448_20201119T205946_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_20201119T210149_20201119T211109_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_20201119T211550_20201119T211556_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_20201119T212916_20201119T213102_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_20201119T213335_20201119T215027_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_20201119T221655_20201119T222127_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_20201119T222417_20201119T223816_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_20201119T231350_20201119T231520_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_20201119T231643_20201119T232233_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_20201119T232517_20201119T234824_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_20201119T235157_20201120T000028_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_20201119T013057_20201119T013134_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_20201119T013250_20201119T013313_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_20201119T062853_20201119T063148_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_20201119T105123_20201119T105322_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_20201119T114330_20201119T114403_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_20201119T122042_20201119T122048_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_20201119T012908_20201119T013057_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_20201119T053612_20201119T053928_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_20201119T071454_20201119T071601_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_20201119T072930_20201119T073358_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20201118T235759_20201119T000257_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_20201119T004119_20201119T004238_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_20201119T005019_20201119T005242_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_20201119T011901_20201119T012042_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_20201119T013057_20201119T013134_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_20201119T013250_20201119T013313_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_20201119T032020_20201119T032335_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_20201119T040036_20201119T040355_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_20201119T040917_20201119T041036_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_20201119T042334_20201119T042456_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_20201119T043131_20201119T043315_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_20201119T044313_20201119T044334_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_20201119T045928_20201119T050240_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_20201119T054812_20201119T054936_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_20201119T061104_20201119T061309_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_20201119T062616_20201119T062648_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_20201119T062853_20201119T063148_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_202011119T080948_202011119T081048_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_20201119T081632_20201119T081646_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_20201119T090404_20201119T090612_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_20201119T094403_20201119T094607_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_20201119T094749_20201119T095004_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_20201119T100520_20201119T100722_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_20201119T112424_20201119T112832_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_20201119T114330_20201119T114403_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_20201119T114447_20201119T114845_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_20201119T121345_20201119T121645_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_20201119T122349_20201119T122551_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_20201119T125529_20201119T125824_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_20201119T131710_20201119T131833_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_20201119T135941_20201119T135948_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_20201119T140316_20201119T140441_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_20201119T144010_20201119T144407_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_20201119T153303_20201119T153429_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_20201119T154218_20201119T154331_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_20201119T163358_20201119T163447_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_20201119T164936_20201119T165120_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_20201119T171910_20201119T172213_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_20201119T182825_20201119T182912_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_20201119T185252_20201119T185553_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_20201119T185813_20201119T190330_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_20201119T194238_20201119T194331_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_20201119T194910_20201119T195320_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_20201119T203722_20201119T203858_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_20201119T211109_20201119T211446_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_20201119T215027_20201119T215421_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_20201119T220751_20201119T221350_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_20201119T222127_20201119T222311_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_20201119T224818_20201119T224949_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_20201119T230726_20201119T230947_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_20201119T231020_20201119T231208_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_20201119T231521_20201119T231643_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_20201119T232355_20201119T232517_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_20201119T001043_20201119T001305_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_20201119T005242_20201119T005457_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_20201119T013313_20201119T013821_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_20201119T015017_20201119T015044_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_20201119T021645_20201119T022045_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_20201119T023215_20201119T023401_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_20201119T030113_20201119T030221_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_20201119T030648_20201119T030805_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_20201119T031212_20201119T032020_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_20201119T035619_20201119T040036_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_20201119T041036_20201119T041352_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_20201119T044359_20201119T044557_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_20201119T045053_20201119T045928_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_20201119T053612_20201119T053928_C001	Ocean and Bar Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T054937_20201119T055351_C001	Ocean and Bar Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T063148_20201119T063848_C001	Ocean and Bar Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T072930_20201119T073358_C001	Ocean and Bar Altimeter PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T081049_20201119T081632_C001	and Ba Altimete PLRM
CS_OFFL_SIR_IOPR_2_20201119T081646_20201119T081757_C001	OCOG OCOG
CS_OFFL_SIR_IOPR_2_20201119T090613_20201119T091148_C001	and Bar Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T092540_20201119T092753_C001	OCOG OCOG
CS_OFFL_SIR_IOPR_2_20201119T095004_20201119T095652_C001	and Bar Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T112203_20201119T112423_C001	OCOG OCOG
CS_OFFL_SIR_IOPR_2_20201119T130655_20201119T131651_C001	and Bad Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T140442_20201119T140726_C001	Ocean and Bar Altimeter PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T144407_20201119T145141_C001	and Ba Altimete PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T145214_20201119T145635_C001	and Ba Altimete PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T153009_20201119T153303_C001	and Bar Altimeter PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T162311_20201119T163002_C001	and Ba Altimete PLRM
CS_OFFL_SIR_IOPR_2_20201119T164141_20201119T164502_C001	OCOG OCOG
CS_OFFL_SIR_IOPR_2_20201119T170823_20201119T171232_C001	and Bar Altimete PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T180140_20201119T180902_C001	and Bar Altimete PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T180902_20201119T181117_C001	and Bar Altimete PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T184822_20201119T185252_C001	and Bar Altimeter PLRM
CS_OFFL_SIR_IOPR_2_20201119T190331_20201119T190542_C001	and Ba Altimete PLRM Ocean
CS_OFFL_SIR_IOPR_2_20201119T194331_20201119T194758_C001	and Bad Altimete PLRM
CS_OFFL_SIR_IOPR_2_20201119T202625_20201119T203249_C001	Ocean and Ba Altimete PLRM
CS_OFFL_SIR_IOPR_2_20201119T212128_20201119T212525_C001	Ocean and Ba Altimete PLRM
CS_OFFL_SIR_IOPR_2_20201119T220334_20201119T220422_C001	ocog ocog

928_C001	Od an Alt
351_C001	PL Od an Alt
848 C001	PL Od an
358 C001	Alt PL Od an
336_C001	Alt PL Od
632_C001	Alt PL
757_C001	00
148_C001	an Alt PL
753_C001	00
652_C001	Od an Alt PL
423_C001	00
651_C001	Od an Alt PL
726_C001	Oc an Alt PL
141_C001	Od an Alf PL
635_C001	Od an Alt PL
303_C001	an Alt PL
002_C001	Od an Alt PL
502_C001	00
232_C001	Od an Alt PL
902_C001	Od an Alt PL
117_C001	Od an Alt PL
252_C001	Od an Alt PL
542_C001	Od an Alt PL
758_C001	Od an Alt PL
249_C001	Oc an Alt PL
525_C001	Od an Alt PL
422_C001	00

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG
01	Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
01	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

Altimeter Range, SSHA, SWH ekscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality set for one or more records. Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags kscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been r Range and Backscatter Quality set for one or more records Altimeter Range, SSHA, SWH ekscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Altimeter Range, SSHA, SWH ckscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been r Range and Backscatter Qualit set for one or more records Altimeter Range, SSHA, SWH ekscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality set for one or more records Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or Backscatter Quality Altimeter Range, SSHA, SWH ekscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or Backscatter Quality Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags kscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or Backscatter Quality Altimeter Range, SSHA, SWH kkscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags kscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been r Range and Backscatter Quality Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags kscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags kscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been r Range and Backscatter Quality set for one or more records. Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been kscatter Quality PLRM, OCOG Range and Backscatter Quality Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags kscatter Quality PLRM, OCOG r Range and Backscatter Quality Altimeter Range Quality PLRM, Backscatter Quality more records. Altimeter Range, SSHA, SWH kscatter Quality PLRM, OCOG r Range and Backscatter Quality set for one or more records Altimeter Range, SSHA, SWH kscatter Quality PLRM, OCOG Range and Backscatter Quality et for one or more records Altimeter Range, SSHA, SWH kscatter Quality PLRM, OCOG r Range and Backscatter Quality set for one or more records

and the OCOG Altimeter Range and Backscatter Quality Flags have been The OCOG Range and Backscatter Quality Flags have been set for one or The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been 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.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been et for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been

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.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20201119T224247_20201119T224705_C001	•	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201119T230120_20201119T230726_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, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors:

191

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20Hz, 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.

Number of products with errors: 14

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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.
- > 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: 2

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20201118T235615_20201119T004554_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_20201119T004554_20201119T013530_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_220201119T013530_20201119T022509_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20201119T022509_20201119T031444_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_20201119T031444_20201119T040423_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_20201119T040423_20201119T045359_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_20201119T045359_20201119T054338_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_20201119T054338_20201119T063314_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20201119T063314_20201119T072252_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_220201119T072252_20201119T081228_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_220201119T081228_20201119T090207_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_220201119T090207_20201119T095143_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_220201119T095143_20201119T104122_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_220201119T104122_20201119T113058_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_220201119T113058_20201119T122037_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_220201119T122037_20201119T131012_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_220201119T131012_20201119T135951_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_220201119T135951_20201119T144927_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_220201119T144927_20201119T153906_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_220201119T153906_20201119T162842_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_220201119T171821_20201119T180756_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220201119T180756_20201119T185735_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_220201119T185735_20201119T194711_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_220201119T194711_20201119T203650_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_220201119T203650_20201119T212625_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_220201119T212625_20201119T221604_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_220201119T221604_20201119T230540_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_220201119T230540_20201119T235519_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)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

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: 2

P2P Quality Flags (1 Hz & 1Hz 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:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

Ocean Retracking Quality Flag (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:

s:

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.

Number of products with errors:

28

7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	186	186	3	183	0
SIR_IOPR1B	107	103	0	103	0
SIR_IOPN1B	103	107	0	107	0
SIR_IOPM_2	186	186	134	52	0
SIR_IOPR_2	107	103	43	60	0
SIR_IOPN_2	103	107	26	80	1
SIR_IOP_P2P	28	28	0	28	0

7.1 QCC Errors

Number of QCC reports with errors:

6

Total number of occurrences of each error

	Total number of occurrences of cach error										
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR IOPR 2	1	1	1	1	1	1					

Test Description Key:	Test Description Key:						
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7					
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7					
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6					
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7					

7.2 QCC Warnings

Number of QCC reports with warnings

2274

Total number of occurrences of each warning

	Total number of occurrences of each warning							
	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
Ī	SIR_IOPM1B	183	0	0	0	0	0	0
	SIR_IOPM_2	0	0	38	39	1	41	0
	SIR_IOPN1B	102	0	0	0	0	0	0
	SIR_IOPN_2	0	0	11	36	6	28	32
	SIR_IOPR1B	104	0	0	0	0	0	0
	SIR IOPR 2	0	1	41	53	0	35	36

	Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
ſ	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	35	0	34	0	0	0	0
	SIR_IOPN1B	0	0	0	0	0	0	0
	SIR_IOPN_2	21	0	0	0	27	0	36
	SIR_IOPR1B	0	0	0	0	0	0	0
	SIR IOPR 2	19	1	0	53	0	60	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	29	0	0	6	23	0	3
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	32	20	46	52	37
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	51	0	0	70	44	11

	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
	SIR_IOPM1B	0	0	0	1	1	0	0
	SIR_IOPM_2	36	0	2	1	1	0	0
	SIR_IOPN1B	0	0	0	1	0	0	45
	SIR_IOPN_2	31	29	18	0	0	0	0
	SIR_IOPR1B	0	0	0	0	0	0	107
Г	SIR IOPR 2	45	56	1	0	0	3	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOP_2_	18	28	28	6	28	16	28
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_IOP_2_	25	28	17	17	28		
Product Type	-	•	-	-	-	-	•
SIR_IOP_2_							

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0