

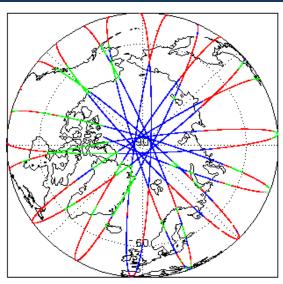
1. Overview

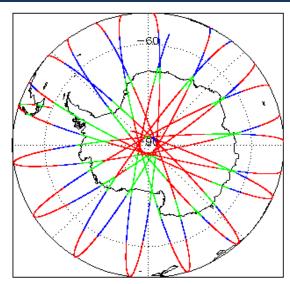
Report Production:	20-Oct-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP)

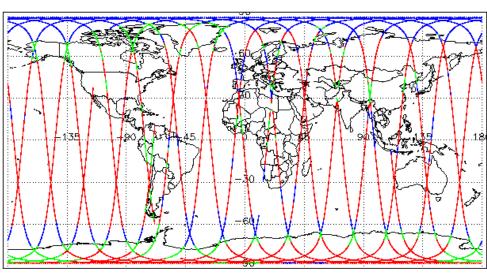
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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 7.2	See Section 7.2

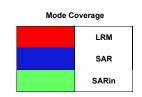
Mission / Instru	ument News
16-Oct-2020	None
17-Oct-2020	None
18-Oct-2020	Nothing planned

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.

umber of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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:

14

0

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20201017T000742_20201017T001550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201017T100225_20201017T101511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201017T122832_20201017T123234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201017T220957_20201017T223210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201017T053026_20201017T053142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201017T170324_20201017T170435_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201017T202312_20201017T202412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201017T211024_20201017T211402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201017T232852_20201017T233505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201017T025420_20201017T025918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201017T061212_20201017T062012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201017T071038_20201017T071441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201017T084923_20201017T085338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201017T200858_20201017T201323_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:

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.

Number of products with errors:

Product

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Descriptio

CS_OFFL_SIR_IOPM_2_20201017T100225_20201017T101511_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_20201017T191113_20201017T192258_C001	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 Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20201017T002245_20201017T002453_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_20201017T011902_20201017T012452_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_20201017T021142_20201017T021412_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_20201017T034139_20201017T034259_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_20201017T044118_20201017T044512_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_20201017T052129_20201017T052456_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_20201017T070038_20201017T070358_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_20201017T075048_20201017T075252_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_20201017T084813_20201017T084923_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_20201017T093051_20201017T093157_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_20201017T102514_20201017T102712_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_20201017T110856_20201017T1111112_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_20201017T121144_20201017T121257_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_20201017T124436_20201017T124949_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20201017T133429_20201017T133733_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_20201017T133429_20201017T133733_C001 CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1)	
		more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001	Mean Dynamic Topography (1)	more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1)	more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1:
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT)	more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T165358_20201017T165522_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records
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CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T165358_20201017T165522_C001 CS_OFFL_SIR_IOPN_2_20201017T184013_20201017T184317_C001 CS_OFFL_SIR_IOPN_2_20201017T201915_20201017T202259_C001 CS_OFFL_SIR_IOPN_2_20201017T215353_20201017T215627_C001 CS_OFFL_SIR_IOPN_2_20201017T224906_20201017T225024_C001 CS_OFFL_SIR_IOPN_2_20201017T232852_20201017T233505_C001 CS_OFFL_SIR_IOPN_2_20201017T011310_20201017T011901_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T165358_20201017T165522_C001 CS_OFFL_SIR_IOPN_2_20201017T184013_20201017T184317_C001 CS_OFFL_SIR_IOPN_2_20201017T201915_20201017T202259_C001 CS_OFFL_SIR_IOPN_2_20201017T215353_20201017T202259_C001 CS_OFFL_SIR_IOPN_2_20201017T224906_20201017T225024_C001 CS_OFFL_SIR_IOPN_2_20201017T232852_20201017T233505_C001 CS_OFFL_SIR_IOPN_2_20201017T011310_20201017T011901_C001 CS_OFFL_SIR_IOPR_2_20201017T025420_20201017T025918_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T165358_20201017T165522_C001 CS_OFFL_SIR_IOPN_2_20201017T184013_20201017T184317_C001 CS_OFFL_SIR_IOPN_2_20201017T201915_20201017T202259_C001 CS_OFFL_SIR_IOPN_2_20201017T215353_20201017T202259_C001 CS_OFFL_SIR_IOPN_2_20201017T224906_20201017T225024_C001 CS_OFFL_SIR_IOPN_2_20201017T232852_20201017T233505_C001 CS_OFFL_SIR_IOPR_2_20201017T011310_20201017T011901_C001 CS_OFFL_SIR_IOPR_2_20201017T025420_20201017T025918_C001 CS_OFFL_SIR_IOPR_2_20201017T025420_20201017T044118_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T165358_20201017T165522_C001 CS_OFFL_SIR_IOPN_2_20201017T184013_20201017T184317_C001 CS_OFFL_SIR_IOPN_2_20201017T201915_20201017T202259_C001 CS_OFFL_SIR_IOPN_2_20201017T215353_20201017T205259_C001 CS_OFFL_SIR_IOPN_2_20201017T224906_20201017T225024_C001 CS_OFFL_SIR_IOPN_2_20201017T232852_20201017T233505_C001 CS_OFFL_SIR_IOPR_2_20201017T011310_20201017T011901_C001 CS_OFFL_SIR_IOPR_2_20201017T025420_20201017T025918_C001 CS_OFFL_SIR_IOPR_2_20201017T043236_20201017T044118_C001 CS_OFFL_SIR_IOPR_2_20201017T061212_20201017T062012_C001	Mean Dynamic Topography (1) Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOPR_2_20201017T104641_20201017T104854_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20201017T1111112_20201017T1111447_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_20201017T1111447_20201017T111813_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_20201017T124949_20201017T125622_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_20201017T142813_20201017T143448_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_20201017T143448_20201017T143727_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_20201017T160506_20201017T161247_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_20201017T174434_20201017T175108_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_20201017T175108_20201017T175310_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_20201017T192259_20201017T193008_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_20201017T193008_20201017T193203_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_20201017T210428_20201017T210905_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_20201017T210906_20201017T211023_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_20201017T224234_20201017T224743_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_20201017T224743_20201017T224906_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

0

92

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201017T000742_20201017T001550_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_20201017T001655_20201017T002005_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_20201017T002453_20201017T003301_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_20201017T003615_20201017T005053_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_20201017T013351_20201017T013749_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20201017T013752_20201017T020002_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_20201017T020617_20201017T021141_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_20201017T021628_20201017T023933_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_20201017T031101_20201017T031114_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

00.0551.010.10014.0.00040477004404.000040477004440.0004	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20201017T031121_20201017T031143_C001	Backscatter Quality	for one or more records.
CS_OFFL_SIR_IOPM_2_20201017T031251_20201017T033822_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_20201017T034547_20201017T035148_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_20201017T035516_20201017T041359_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_20201017T042953_20201017T043236_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_20201017T044513_20201017T051647_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_20201017T052457_20201017T053025_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_20201017T053435_20201017T053815_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_20201017T054115_20201017T055022_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_20201017T060916_20201017T061212_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_20201017T062404_20201017T063448_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_20201017T063547_20201017T065704_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_20201017T070505_20201017T070914_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_20201017T071442_20201017T073054_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_20201017T074857_20201017T074943_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_20201017T080029_20201017T083548_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_20201017T085503_20201017T092651_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_20201017T092759_20201017T093050_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_20201017T094105_20201017T095341_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_20201017T095823_20201017T100109_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_20201017T100225_20201017T101511_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_20201017T101743_20201017T102300_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_20201017T102334_20201017T102514_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_20201017T103325_20201017T104640_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_20201017T104855_20201017T110625_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_20201017T110630_20201017T110722_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_20201017T112820_20201017T113843_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_20201017T114023_20201017T115355_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_20201017T115710_20201017T120212_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_20201017T120249_20201017T120350_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_20201017T121045_20201017T121144_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_20201017T121733_20201017T122257_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_20201017T122832_20201017T123234_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_20201017T123357_20201017T124107_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_20201017T124230_20201017T124435_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_20201017T130410_20201017T130416_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_20201017T131246_20201017T133233_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_20201017T133733_20201017T134129_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_20201017T134858_20201017T141627_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_20201017T144827_20201017T151154_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_20201017T151521_20201017T152044_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_20201017T152810_20201017T160025_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_20201017T161407_20201017T161457_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_20201017T162135_20201017T162255_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_20201017T162444_20201017T164417_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_20201017T165523_20201017T170323_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_20201017T170904_20201017T174037_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_20201017T175310_20201017T175501_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_20201017T180237_20201017T180324_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_20201017T183458_20201017T184013_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_20201017T184730_20201017T190827_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_20201017T191113_20201017T192258_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.

CB_OFFL_SR_JOPM_2_20201917719572_2020197721950_20191772008_COID Administrating and Educational Country CB_OFFL_SR_JOPM_2_2020191772008_COID CB_OFFL_SR_JOPM_2_20201917721920_COID CB_OFFL_SR_JOPM_2_2020191772200_COID CB_OFFL	CS_OFFL_SIR_IOPM_2_20201017T193203_20201017T193656_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017120585_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017121058_C001 CB_OFFL_SRI_IOPM_2_20001017120580_2001017121058_C001 CB_OFFL_SRI_IOPM_2_20001017121058_C001 CB_OFFL_SRI_IOPM_2_20001017121058_C0010 CB_OFFL_SRI_IOPM_2_2000101712058_C001017120058_C00101 CB_OFFL_SRI_IOPM_2_2000101712058_C001017120058_C	CS_OFFL_SIR_IOPM_2_20201017T195120_20201017T195720_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIN_OPM_2_20201017720036_20201017720037_0001 CS_OFFL_SIN_OPM_2_20201017720036_20201017720038_0001 CS_OFFL_SIN_OPM_2_20201017720036_20201017720038_0001 CS_OFFL_SIN_OPM_2_20201017720036_202010177210038_0001 CS_OFFL_SIN_OPM_2_20201017720036_202010177210038_0001 CS_OFFL_SIN_OPM_2_20201017720036_202010177210038_0001 CS_OFFL_SIN_OPM_2_20201017721037_000107720038_0001 CS_OFFL_SIN_OPM_2_20201017721137_000107720038_0001 CS_OFFL_SIN_OPM_2_20201017721038_000107720038_0001 CS_OFFL_SIN_OPM_2_20201017721233_00010177210038_0001 CS_OFFL_SIN_OPM_2_20201017721033_00010177210038_0001 CS_OFFL_SIN_OPM_2_20201017721033_00010177210038_0001 CS_OFFL_SIN_OPM_2_20201017721033_00010177210038_0001 CS_OFFL_SIN_OPM_2_20201017721033_00010177210032_0001 CS_OFFL_SIN_OPM_2_20201017721033_00010177210032_0001 CS_OFFL_SIN_OPM_2_202010177210332_00010177210032_0001 CS_OFFL_SIN_OPM_2_202010177210332_00010177210032_0001 CS_OFFL_SIN_OPM_2_202010177210332_00010177210032_0001 CS_OFFL_SIN_OPM_2_202010177200332_0001017720032_0001 CS_OFFL_SIN_OPM_2_202010177200332_0001017720032_0001 CS_OFFL_SIN_OPM_2_202010177200332_0001017720032_0001 CS_OFFL_SIN_OPM_2_202010177200332_0001017720032_0001 CS_OFFL_SIN_OPM_2_202010177200332_0001017720032_0001 CS_OFFL_SIN_OPM_2_202010177200332_00010	CS_OFFL_SIR_IOPM_2_20201017T195907_20201017T200857_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flockscarler Coulsily. COCO All Minder Range and Backscarler Coulsily Flags have be Motivated Range and Backscarler Coulsily. Plags have be Motivated Range and Backscarler Coulsily Flags have be Motivated Range and Backscarler Coulsily. Plags have be Motivated Range and Backscarler Coulsily Flags have be Motivated Range and Backscarler Coulsily. COCO Grand Range and Backscarler Coulsily Flags have be Motivated Range and Backscarler Coulsily. COCO Grand Range and Backscarler Coulsily. COCO Grand Range and Backscarler Coulsily. Plags have be Range and Backscarler Coulsily. Plags have be Range Range. SSHA. SWH and Backscarler Coulsily. Plags have be Range Range. SSHA. SWH and Backscarler Coulsily. Plags have be Range. SSHA.	CS_OFFL_SIR_IOPM_2_20201017T202636_20201017T205234_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
ard Backscatter Quality COCO Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_JOPM_2_202010177211417_20201017721446_C001 CS_OFFL_SIR_JOPM_2_202010177211423_20201017721446_C001 Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_JOPM_2_202010177212238_202010177214652_C001 CS_OFFL_SIR_JOPM_2_202010177212238_202010177214652_C001 CS_OFFL_SIR_JOPM_2_202010177212238_202010177214652_C001 CS_OFFL_SIR_JOPM_2_202010177219228_202010177214652_C001 CS_OFFL_SIR_JOPM_2_20201017721928_20201017720032_C001 CS_OFFL_SIR_JOPM_2_202010177220032_20201017720032_C001 CS_OFFL_SIR_JOPM_2_202010177220032_20201017720032_C001 CS_OFFL_SIR_JOPM_2_202010177220032_202010177220032_C001 CS_OFFL_SIR_JOPM_2_202010177220032_20201017720000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20201017T205247_20201017T205557_C001	and Backscatter Quality, OCOG	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.
and Backscarter Osaley, OCOG Allimeter Range and Backscarter Osaley (Cotto) Allimeter Range (Cotto) Allimeter Ran	CS_OFFL_SIR_IOPM_2_20201017T205652_20201017T210008_C001	and Backscatter Quality, OCOG	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.
and Backscater Quality, COCG Allmeter Range and Backscater Quality Flags have be after the Cock of Allmeter Range and Backscater Quality Flags have be after the Cock of Allmeter Range and Backscater Quality Flags have be after the Cock of Allmeter Range and Backscater Quality Flags have be after the Cock of Allmeter Range and Backscater Quality Flags have be after the Cock of Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after the Cock Allmeter Range and Backscater Quality Flags have be after t	CS_OFFL_SIR_IOPM_2_20201017T211417_20201017T211448_C001	and Backscatter Quality, OCOG	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.
and Backscatter Quality. COG Allmeter Range and Backscatter Quality set for one or more records. CS_0FFL_SIR_IOPM_2_20201017T215628_20201017T215822_C001 CS_0FFL_SIR_IOPM_2_20201017T220034_20201017T220322_C001 CS_0FFL_SIR_IOPM_2_20201017T220034_20201017T220322_C001 CS_0FFL_SIR_IOPM_2_20201017T220034_20201017T220322_C001 CS_0FFL_SIR_IOPM_2_20201017T220552_20201017T220007_C001 CS_0FFL_SIR_IOPM_2_20201017T220552_20201017T220007_C001 CS_0FFL_SIR_IOPM_2_20201017T220552_20201017T220007_C001 CS_0FFL_SIR_IOPM_2_20201017T220552_20201017T2201007_C001 CS_0FFL_SIR_IOPM_2_20201017T220552_20201017T223110_C001 CS_0FFL_SIR_IOPM_2_20201017T220007_20201017T23110_C001 CS_0FFL_SIR_IOPM_2_20201017T225540_20201017T232315_C001 CS_0FFL_SIR_IOPM_2_20201017T235540_20201017T232315_C001 CS_0FFL_SIR_IOPM_2_20201017T235242_20201017T232315_C001 CS_0FFL_SIR_IOPM_2_20201017T235366_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T235366_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T233741_C001 CS_0FFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_0FFL_SI	CS_OFFL_SIR_IOPM_2_20201017T211523_20201017T212220_C001	and Backscatter Quality, OCOG	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.
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201017T220034_20201017T220032_C001 CS_OFFL_SIR_IOPM_2_20201017T220034_20201017T220007_C001 CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T220007_C001 CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T220007_C001 CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T220007_C001 CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T22310_C001 CS_OFFL_SIR_IOPM_2_20201017T220554_20201017T23130_C001 CS_OFFL_SIR_IOPM_2_20201017T225540_20201017T23130_C001 CS_OFFL_SIR_IOPM_2_20201017T235540_20201017T23150_C001 CS_OFFL_SIR_IOPM_2_20201017T231740_20201017T232551_C001 CS_OFFL_SIR_IOPM_2_20201017T237540_20201017T232551_C001 CS_OFFL_SIR_IOPM_2_20201017T237540_20201017T232551_C001 CS_OFFL_SIR_IOPM_2_20201017T237542_20201017T23351_C001 CS_OFFL_SIR_IOPM_2_20201017T23554_20201017T23351_C001 CS_OFFL_SIR_IOPM_2_20201017T23554_20201017T23551_C001 CS_OFFL_SIR_IOPM_2_20201	CS_OFFL_SIR_IOPM_2_20201017T212238_20201017T214652_C001	and Backscatter Quality, OCOG	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.
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T220907_C001 CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T220907_C001 CS_OFFL_SIR_IOPM_2_20201017T22057_20201017T223210_C001 CS_OFFL_SIR_IOPM_2_20201017T22057_20201017T223210_C001 CS_OFFL_SIR_IOPM_2_20201017T22057_20201017T223210_C001 CS_OFFL_SIR_IOPM_2_20201017T223540_20201017T231130_C001 CS_OFFL_SIR_IOPM_2_20201017T223540_20201017T231130_C001 CS_OFFL_SIR_IOPM_2_20201017T231740_20201017T232315_C001 CS_OFFL_SIR_IOPM_2_20201017T232542_20201017T232315_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233506_001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233506_001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T2345916_C001 CS_OFFL_SIR_IOPM_2_20201017T023453_2001 CCOGA Allimeter Range Cuality, OCOGA Allimeter Range and Backscatter Quality Flags have been for one or more records. CCOGA Allimeter Range and Backscatter Quality Flags have been for one or more records. CCOGA Allimeter Range and Backscatter Quality Flags have been for one or more records. CCOGA Allimeter Range and Backscatter Quality Flags have been for one or more records. CCOGA Allimeter Range and Backscatter Quality Flags have been for one or more records. CCOGA Allimeter Range and Backscatter Quality Flags have been for one or more records. CCOGA Allimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20201017T215628_20201017T215822_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, CCOG Allimeter Range and Backscatter Quality Flags have be allimeter Range Ra	CS_OFFL_SIR_IOPM_2_20201017T220034_20201017T220322_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_IOPM_2_20201017T231749_20201017T232315_C001 CS_OFFL_SIR_IOPM_2_20201017T232524_20201017T232851_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233502_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T235916_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T0021412_C001017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_	CS_OFFL_SIR_IOPM_2_20201017T220552_20201017T220907_C001	and Backscatter Quality, OCOG	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_20201017T225540_20201017T23130_C001 and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_IOPM_2_20201017T231749_20201017T232315_C001 CS_OFFL_SIR_IOPM_2_20201017T232524_20201017T232551_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T23412_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T23451_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234531_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234531_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234531_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234531_C001 CS_OFFL_SIR_IOPM_2_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002455_C001 CS_OFFL_SIR_IOPM_2_20201017T002455_C001017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002455_C001017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002455_C001017T002455_C001 CS_OFFL_SIR_IOPM_2_20201017T002455_C001017T002455_C001 CS_OFFL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20201017T220957_20201017T223210_C001	and Backscatter Quality, OCOG	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.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be Set for one or more records. CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T233504_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T235916_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T0021412_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002145_2001017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002453_C001 CS_OFFL_SIR	CS_OFFL_SIR_IOPM_2_20201017T225540_20201017T231130_C001	and Backscatter Quality, OCOG	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.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001 CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T234229_C001 CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T235916_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T001412_C001 CS_OFFL_SIR_IOPM_2_20201017T001142_20201017T001412_C001 CS_OFFL_SIR_IOPM_2_20201017T001142_C001 CS_OFFL_SIR_IOPM_2_20201017T001142_C001 CS_OFFL_SIR_IOPM_2_20201017T001142_	CS_OFFL_SIR_IOPM_2_20201017T231749_20201017T232315_C001	and Backscatter Quality, OCOG	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.
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001 DCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T235916_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002245_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002245_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002245_C001 CS_OFFL_SIR_IOPM_2_20201017T002245_20201017T002453_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 DCEAN Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 DCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 DCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T0021142_20201017T0021412_C001 DCEAN Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T0053026_20201017T0053142_C001 DCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPM_2_20201017T053026_20201017T053142_C001 DCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPM_2_20201017T232524_20201017T232851_C001	and Backscatter Quality, OCOG	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.
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPN_2_20201017T002245_20201017T002453_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range and Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPM_2_20201017T233506_20201017T233741_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T235916_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCEAN Altimeter Range and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. The OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPM_2_20201017T233802_20201017T234229_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be CS_OFFL_SIR_IOPN_2_20201017T053026_20201017T053142_C001 Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality	CS_OFFL_SIR_IOPM_2_20201017T234534_20201017T235916_C001	and Backscatter Quality, OCOG	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_20201017T021142_20201017T021412_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and Backscatter Quality, OCOG	CS_OFFL_SIR_IOPN_2_20201017T002245_20201017T002453_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20201017T053026_20201017T053142_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have be	CS_OFFL_SIR_IOPN_2_20201017T021142_20201017T021412_C001	and Backscatter Quality, OCOG	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.
Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_IOPN_2_20201017T053026_20201017T053142_C001	and Backscatter Quality, OCOG	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_20201017T093051_20201017T093157_C001	and Backscatter Quality, OCOG	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_20201017T115522_20201017T115709_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPN_2_20201017T115522_20201017T115709_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001	and Backscatter Quality, OCOG	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_20201017T181040_20201017T181224_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPN_2_20201017T181040_20201017T181224_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20201017T201324_20201017T201631_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_20201017T013345_20201017T013351_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_20201017T073920_20201017T073937_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_20201017T174159_20201017T174255_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_20201017T181944_20201017T182241_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.

Number of products with errors:

98

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20201017T000205_20201017T000742_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_20201017T001550_20201017T001654_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_20201017T003302_20201017T003449_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_20201017T010002_20201017T010344_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_20201017T011902_20201017T012452_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_20201017T020543_20201017T020617_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_20201017T024904_20201017T024938_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_20201017T025355_20201017T025420_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_20201017T035149_20201017T035312_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_20201017T044118_20201017T044512_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_20201017T060017_20201017T060128_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_20201017T062012_20201017T062227_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_20201017T070038_20201017T070358_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_20201017T070914_20201017T071037_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_20201017T073055_20201017T073422_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_20201017T075048_20201017T075252_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_20201017T083745_20201017T083933_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_20201017T084813_20201017T084923_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_20201017T092651_20201017T092758_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_20201017T093051_20201017T093157_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_20201017T101606_20201017T101742_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_20201017T102514_20201017T102712_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_20201017T112513_20201017T112819_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_20201017T115522_20201017T115709_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_20201017T121144_20201017T121257_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_20201017T121454_20201017T121732_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_20201017T122303_20201017T122743_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_20201017T123234_20201017T123357_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_20201017T124107_20201017T124229_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_20201017T124436_20201017T124949_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_20201017T130539_20201017T130933_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_20201017T134411_20201017T134645_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_20201017T134411_20201017T134645_C001 CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001		
	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM,	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T161247_20201017T161323_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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. 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_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T161247_20201017T161323_C001 CS_OFFL_SIR_IOPN_2_20201017T161457_20201017T161551_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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. 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_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T161247_20201017T161323_C001 CS_OFFL_SIR_IOPN_2_20201017T161457_20201017T161551_C001 CS_OFFL_SIR_IOPN_2_20201017T174255_20201017T174434_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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. 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. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T161247_20201017T161323_C001 CS_OFFL_SIR_IOPN_2_20201017T161457_20201017T161551_C001 CS_OFFL_SIR_IOPN_2_20201017T174255_20201017T174434_C001 CS_OFFL_SIR_IOPN_2_20201017T175644_20201017T175806_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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. 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. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20201017T141628_20201017T141827_C001 CS_OFFL_SIR_IOPN_2_20201017T142230_20201017T142351_C001 CS_OFFL_SIR_IOPN_2_20201017T142429_20201017T142812_C001 CS_OFFL_SIR_IOPN_2_20201017T160026_20201017T160506_C001 CS_OFFL_SIR_IOPN_2_20201017T161247_20201017T161323_C001 CS_OFFL_SIR_IOPN_2_20201017T161457_20201017T161551_C001 CS_OFFL_SIR_IOPN_2_20201017T174255_20201017T174434_C001 CS_OFFL_SIR_IOPN_2_20201017T175644_20201017T175806_C001 CS_OFFL_SIR_IOPN_2_20201017T175644_20201017T175806_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. 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. 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. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20201017T215823_20201017T220034_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_20201017T220323_20201017T220448_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_20201017T223357_20201017T223618_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_20201017T224906_20201017T225024_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_20201017T231643_20201017T231749_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_20201017T232852_20201017T233505_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_20201017T005053_20201017T005326_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_20201017T005329_20201017T005801_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_20201017T011310_20201017T011901_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_20201017T020002_20201017T020151_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_20201017T021412_20201017T021628_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_20201017T025015_20201017T025227_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_20201017T042826_20201017T042953_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_20201017T043236_20201017T044118_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_20201017T051648_20201017T052129_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_20201017T053143_20201017T053434_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_20201017T055843_20201017T060017_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_20201017T060503_20201017T060800_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_20201017T061212_20201017T062012_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_20201017T062228_20201017T062318_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_20201017T065704_20201017T070037_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_20201017T071038_20201017T071441_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_20201017T074128_20201017T074447_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_20201017T075253_20201017T080028_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_20201017T083548_20201017T083745_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_20201017T084923_20201017T085338_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.

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CS_OFFL_SIR_IOPR_2_20201017T093157_20201017T093908_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_20201017T095342_20201017T095822_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_20201017T102712_20201017T103325_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_20201017T104641_20201017T104854_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_20201017T111112_20201017T1111447_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_20201017T1111447_20201017T1111813_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_20201017T124949_20201017T125622_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_20201017T133234_20201017T133428_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_20201017T142813_20201017T143448_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_20201017T143448_20201017T143727_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_20201017T151155_20201017T151401_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_20201017T160506_20201017T161247_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_20201017T165116_20201017T165358_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_20201017T174434_20201017T175108_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_20201017T175548_20201017T175643_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_20201017T175807_20201017T175910_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_20201017T181944_20201017T182241_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_20201017T182923_20201017T183332_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_20201017T184317_20201017T184730_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_20201017T192259_20201017T193008_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_20201017T193008_20201017T193203_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_20201017T194342_20201017T194412_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_20201017T200858_20201017T201323_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_20201017T214652_20201017T215353_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_20201017T224234_20201017T224743_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_20201017T224743_20201017T224906_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_20201017T231130_20201017T231343_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201017T232316_20201017T232523_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:

178

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:

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:

Ω

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_20201016T233806_20201017T002741_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201017T002741_20201017T011720_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_20201017T011720_20201017T020656_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_20201017T020656_20201017T025635_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_20201017T025635_20201017T034610_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_20201017T034610_20201017T043550_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_20201017T043550_20201017T052525_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_20201017T052525_20201017T061505_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_20201017T061505_20201017T070440_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_20201017T070440_20201017T075419_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_20201017T075419_20201017T084354_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_20201017T084354_20201017T093334_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_20201017T093334_20201017T102309_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_20201017T102309_20201017T111248_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_20201017T111248_20201017T120224_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_20201017T120224_20201017T125203_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_20201017T125203_20201017T134138_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_20201017T134138_20201017T143118_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_20201017T143118_20201017T152053_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_20201017T152053_20201017T161033_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_20201017T161033_20201017T170008_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_20201017T170008_20201017T174947_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_20201017T174947_20201017T183923_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) เพ่อลา รอล รบเวลce (1), เพ่อลา บุทุกสกเต	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201017T183923_20201017T192902_C001	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_IOP_2_20201017T192902_20201017T201837_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_20201017T201837_20201017T210817_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_220201017T210817_20201017T215752_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_20201017T215752_20201017T224731_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_220201017T224731_20201017T233706_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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: 3

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:

P2P Retracking Flags PLRM

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

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

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	168	168	1	167	0
SIR_IOPR1B	105	102	1	101	0
SIR_IOPN1B	102	105	0	105	0
SIR_IOPM_2	168	168	112	56	0
SIR_IOPR_2	105	102	41	61	0
SIR_IOPN_2	102	105	27	78	0
SIR_IOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

2273

Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOPM1B	167	0	0	0	0	0	0
SIR_IOPM_2	0	42	34	1	43	0	36
SIR_IOPN1B	101	0	0	0	0	0	0
SIR_IOPN_2	0	13	33	3	28	27	20
SIR_IOPR1B	99	0	0	0	0	0	0
SIR IOPR 2	0	39	46	2	33	31	16

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	4	0	37	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	20	0	0	0	27	0	34
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	24	2	0	48	0	52	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	30	0	0	5	31	0	3
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	29	22	45	50	35
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	46	0	2	65	41	10

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_IOPM1B	0	0	0	0	0	1	
SIR_IOPM_2	36	0	2	0	0	0	
SIR_IOPN1B	0	0	0	0	49	2	
SIR_IOPN_2	27	26	12	1	0	0	
SIR_IOPR1B	0	0	0	0	105	5	
SIR_IOPR_2	41	49	3	2	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOP_2_	14	29	29	5	29	18	28

CID IOD 3 94 9 90 90 90 90		PF RPEPOPFDPLRMSINNCDIRPEPOPFDSINN	NCDF RPEPOPSINNCDF RSSBCONCDF RSS	SSHAOFDNCDF
SIR_IOP_Z_	SIR IUP 2 124	18 29)

Product Ty	эе	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR_IOP_2	_	18	25	29	19	15	29	

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
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
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
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
RPEPOPFDSARNCDF	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		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC		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
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
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

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