

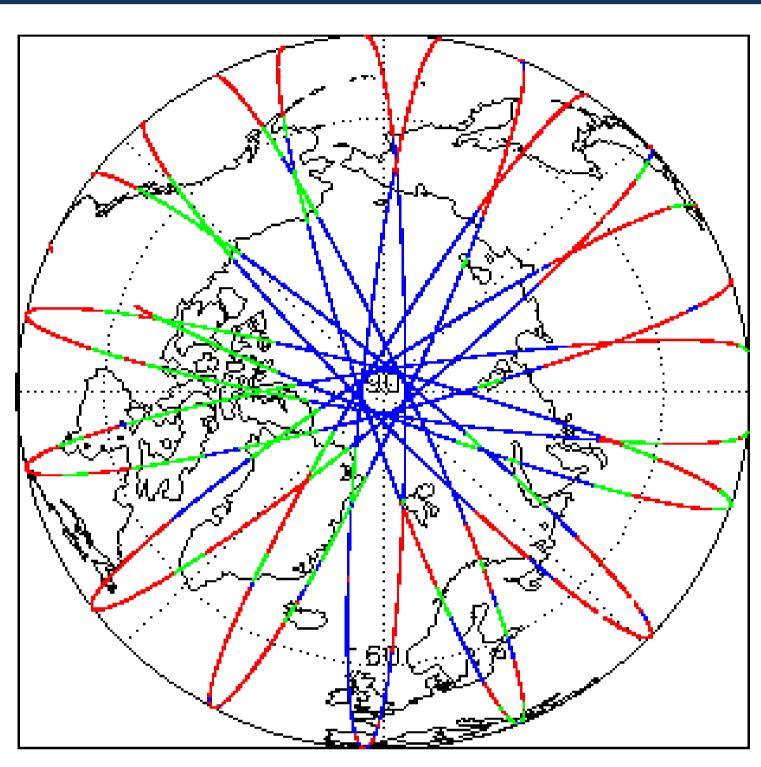
1. Overview

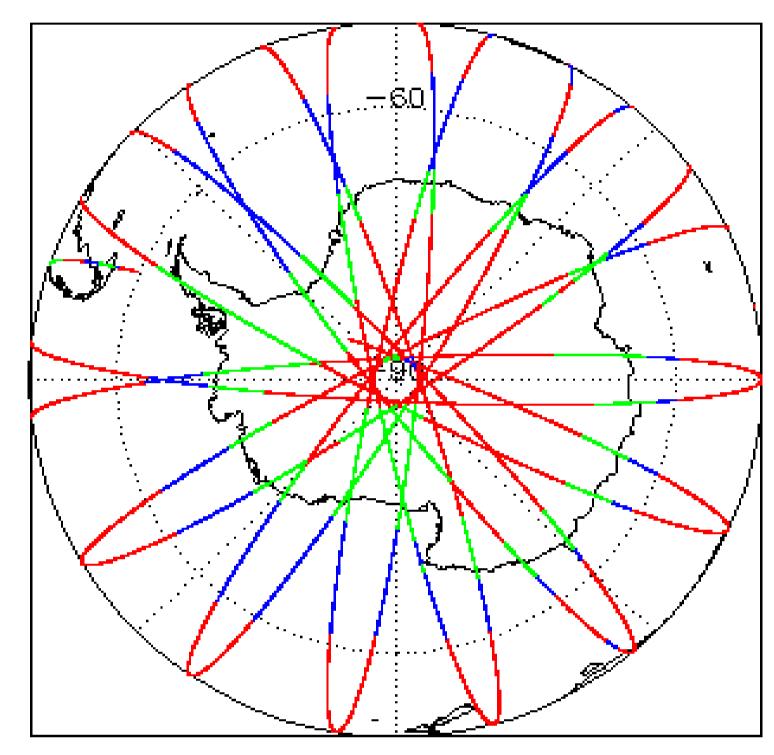
Report Production:	07-Dec-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

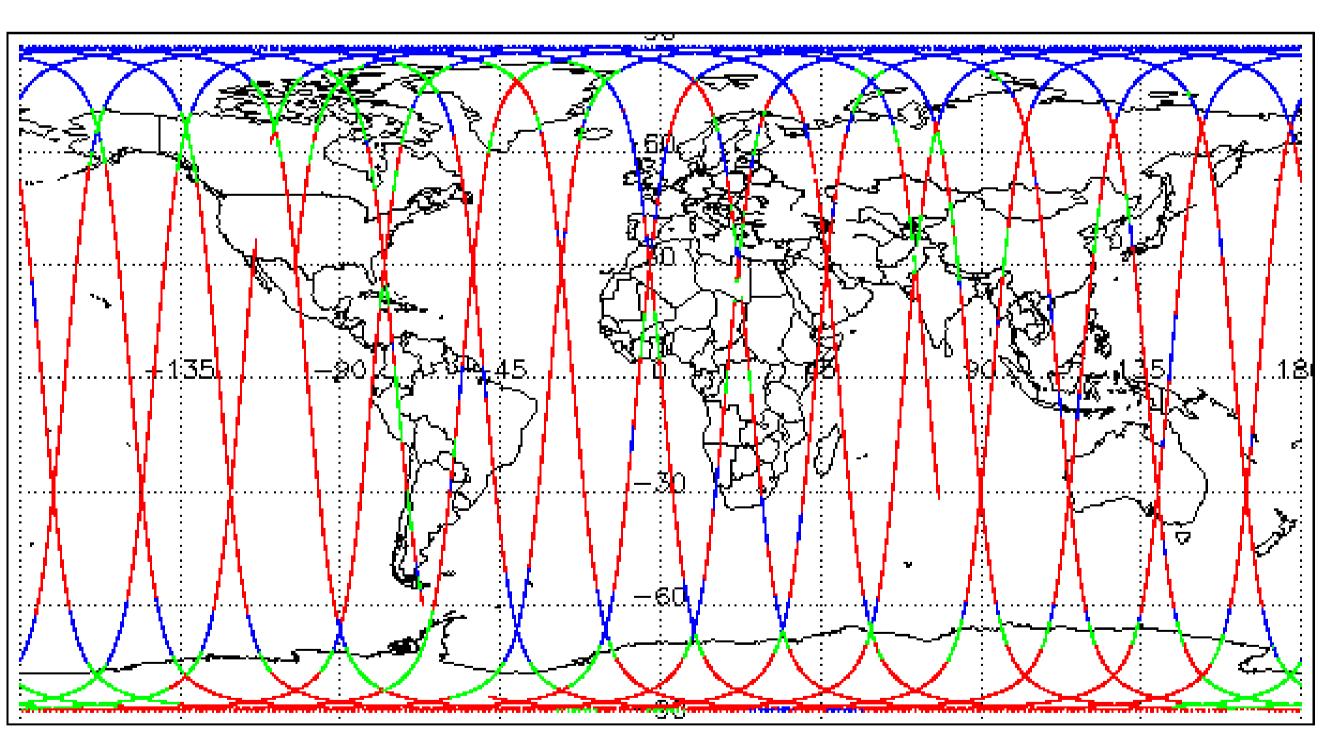
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2

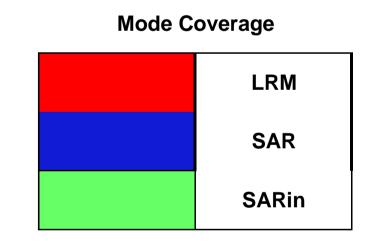
Missic	on / Instru	ment News
01-D	ec-2020	None
02-D	ec-2020	None
03-D	ec-2020	Nothing planned

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:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

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:

19

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20201202T082551_20201202T084242_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201202T172905_20201202T173417_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201202T230142_20201202T232443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T003046_20201202T003117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T070743_20201202T070852_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T084550_20201202T084807_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T102135_20201202T102202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T102209_20201202T102647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T220533_20201202T220742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201202T234447_20201202T234933_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T003117_20201202T003609_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T030844_20201202T031120_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T044738_20201202T045144_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T091540_20201202T091719_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T142822_20201202T143054_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T144136_20201202T144550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T192352_20201202T193053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T200919_20201202T201103_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201202T233726_20201202T234447_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > 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: 54

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201202T004912_20201202T011517_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_20201202T053724_20201202T060007_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPM_2_20201202T121412_20201202T121508_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_IOPM_2_20201202T233606_20201202T233656_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_20201202T003609_20201202T004016_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_20201202T011817_20201202T011958_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_20201202T021808_20201202T022220_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20201202T025825_20201202T030156_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_20201202T043739_20201202T044100_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_20201202T044613_20201202T044737_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_20201202T052816_20201202T052943_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_20201202T062515_20201202T062624_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_20201202T070743_20201202T070852_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_20201202T080217_20201202T080411_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_20201202T084550_20201202T084807_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_20201202T102209_20201202T102647_C001	Tide (FFS) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20201202T111127_20201202T111422_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_20201202T120131_20201202T120510_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_20201202T153159_20201202T153216_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_20201202T154015_20201202T154206_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_20201202T161713_20201202T162019_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_20201202T175015_20201202T175318_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_20201202T193053_20201202T193327_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_20201202T202559_20201202T202718_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_20201202T210620_20201202T211209_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_20201202T220533_20201202T220742_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_20201202T224817_20201202T224953_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_20201202T225845_20201202T230047_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_20201202T234447_20201202T234933_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_20201202T003117_20201202T003609_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_20201202T020851_20201202T021808_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_20201202T034907_20201202T035701_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_20201202T052943_20201202T053713_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_20201202T070852_20201202T071606_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_20201202T082337_20201202T082551_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20201202T084807_20201202T084902_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_20201202T084902_20201202T085458_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_20201202T102647_20201202T103357_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_20201202T120510_20201202T120904_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_20201202T120904_20201202T121412_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_20201202T134204_20201202T134942_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_20201202T152134_20201202T152803_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_20201202T152803_20201202T153045_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_20201202T165832_20201202T165909_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_20201202T165952_20201202T170703_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_20201202T170703_20201202T170845_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_20201202T184118_20201202T184601_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_20201202T184601_20201202T184720_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_20201202T201921_20201202T202442_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_20201202T202442_20201202T202559_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_20201202T220120_20201202T220201_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_20201202T220201_20201202T220533_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_20201202T233656_20201202T233726_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_20201202T233726_20201202T234447_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.

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201201T235254_20201202T001631_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
CS_OFFL_SIR_IOPM_2_20201202T004844_20201202T004904_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_20201202T004912_20201202T011517_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_20201202T012246_20201202T012727_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_20201202T013204_20201202T015934_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_20201202T020630_20201202T020851_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_20201202T022220_20201202T025348_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_20201202T030156_20201202T030728_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_20201202T031120_20201202T031515_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_20201202T034619_20201202T034907_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_20201202T040107_20201202T043404_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_20201202T044101_20201202T044613_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_20201202T045144_20201202T050753_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_20201202T051117_20201202T051608_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_20201202T052551_20201202T052610_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_20201202T053724_20201202T060007_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_20201202T060050_20201202T061250_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_20201202T061651_20201202T062100_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_20201202T063014_20201202T065612_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_20201202T065627_20201202T070342_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_20201202T070500_20201202T070743_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_20201202T071828_20201202T073037_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_20201202T073519_20201202T073635_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_20201202T073648_20201202T073943_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_20201202T074008_20201202T075233_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_20201202T075442_20201202T080000_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_20201202T081038_20201202T082337_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_20201202T082551_20201202T084242_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_20201202T090512_20201202T091539_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_20201202T091719_20201202T093107_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_20201202T093409_20201202T093912_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_20201202T093936_20201202T094051_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_20201202T095558_20201202T095942_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_20201202T100643_20201202T100929_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_20201202T101924_20201202T102111_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_20201202T104941_20201202T111005_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_20201202T111422_20201202T111830_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_20201202T112544_20201202T115924_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_20201202T122519_20201202T124910_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_20201202T125219_20201202T125744_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_20201202T125751_20201202T130116_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_20201202T130521_20201202T133658_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_20201202T140144_20201202T142201_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_20201202T142408_20201202T142822_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_20201202T144550_20201202T151742_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_20201202T153045_20201202T153159_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_20201202T160100_20201202T160613_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_20201202T162406_20201202T164523_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_20201202T164808_20201202T165832_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.

Comparison Security Securit	CS_OFFL_SIR_IOPM_2_20201202T170858_20201202T171342_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.
Col. Col. Sec. Col. Col. Col. Sec. Col. Col. Sec. Col. Col. Col. Col. Col. Sec. Col. Col. Col. Col. Col. Col. Col. Col	CS_OFFL_SIR_IOPM_2_20201202T172905_20201202T173417_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
20_0HSROH2_200 CET_ FEED2007_201118200_0000 20_0HSROH2_200 CET_ FEED2007_201118200_00000 20_0HSROH2_200 CET_ FEED2007_201118200_00000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20201202T173605_20201202T174619_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SIGNATION OF A 2001000119529, 200100100119529, 200100119529, 200100119529, 200100119529, 20010011952	CS_OFFL_SIR_IOPM_2_20201202T180327_20201202T182929_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Set per COOC Afference Funger and Educationer Country, COOC Afference Funger and Educationer Country (Coop Afference Funger) a	CS_OFFL_SIR_IOPM_2_20201202T183108_20201202T183707_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_IOFM_2_2022* 2007195564_20012227116235_C0012271	CS_OFFL_SIR_IOPM_2_20201202T185229_20201202T185920_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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and Buckescater Outliey, OCCG Affinder Rings Quality, OCCG Affinder Rings SEHA, SWH1 and Servicester Quality Flags have Seen set for or or or non-control. CS_OFFL_SIR_IOPM_2_2000122773574_20011007179682_OCC CS_OFFL_SIR_IOPM_2_2000122773574_20021207172600_OCCG Affinder Rings Quality, OCCG Affinder Rings SEHA, SWH1 and Servicester Quality Flags have Seen set for or or or non-control. CS_OFFL_SIR_IOPM_2_2000122719544_20021207172600_OCCG Affinder Rings Quality, OCCG Affinder Rings Quality, OCCG Affinder Rings Guality, OCCG Affinder R	CS_OFFL_SIR_IOPM_2_20201202T194744_20201202T195830_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Baccounter Chaely CS_OFFL_SIR_JOPM_2_20201227129718_202012272704522_CD01 CS_OFFL_SIR_JOPM_2_20201227129718_202012272704522_CD01 Annual Backdester Chaely, COCG Alterneter Range, SSIA, SVIII and Backdester Chaelity Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20201227129515_20201227121620_CD01 CS_OFFL_SIR_JOPM_2_20201227129515_20201227121620_CD01 CS_OFFL_SIR_JOPM_2_2020122712158_20201227121620_CD01 CS_OFFL_SIR_JOPM_2_2020122712158_20201227121630_CD01 CS_OFFL_SIR_JOPM_2_2020122712158_2020122712158_CD01 CS_OFFL_SIR_JOPM_2_2020122712218_2020122712158_CD01 CS_OFFL_SIR_JOPM_2_2020122712218_2020122712218_CD01 CS_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CS_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CS_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CS_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712218_2020122712248_CD01 CC_OFFL_SIR_JOPM_2_2020122712	CS_OFFL_SIR_IOPM_2_20201202T195848_20201202T200919_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS OFFL SIR JOPM 2 202012071202120212021204822 CD01 Ocean Alimeter Range SSHA SVH and Backscatter Quality Fligs have been admitted frange and Sackscatter Quality Fligs have been after the common and the COCS Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. Ocean Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. Ocean Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. OCEO Alimeter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Alimeter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Alimeter Range and Backscatter Quality Fligs have been set for one or more records. OCEO Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. OCEO Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. OCEAN Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. OCEAN Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. OCEAN Alimeter Range SSHA SVH and Backscatter Quality Fligs have been set for one or more records. OCEAN Alimeter Range SSHA SVH and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range SSHA SVH and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range SSHA SVH and Backscatter Quality Fligs and the OCOS Alimeter Range SSHA SVH and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs and the OCOS Alimeter Range and Backscatter Quality Fligs have been set for one or more	CS_OFFL_SIR_IOPM_2_20201202T201516_20201202T201519_C001		
CS_OFFL_SIR_IOPM_2_20201207205715_202012027210500_C001 Altereder Range and Backscatter Quality COOS alterneder Range and Backscatter Quality Range Range Range Range Shid, SWH and Backscatter Quality Range	CS_OFFL_SIR_IOPM_2_20201202T202718_20201202T203119_C001		
and Backscatter Quality COSC Altimoter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_2020120ZT211504_2020120ZT211920_0001 CS_OFFL_SIR_IOPM_2_2020120ZT211504_2020120ZT211920_0001 CS_OFFL_SIR_IOPM_2_2020120ZT212150_2020120ZT21961_C001 CS_OFFL_SIR_IOPM_2_2020120ZT212150_2020120ZT21961_C001 CS_OFFL_SIR_IOPM_2_2020120ZT212150_2020120ZT21350_C001 CS_OFFL_SIR_IOPM_2_2020120ZT213752_2020120ZT214501_C001 CS_OFFL_SIR_IOPM_2_2020120ZT221442_2020120ZT21450_C001 CS_OFFL_SIR_IOPM_2_2020120ZT221442_2020120ZT224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT22463_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT22463_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT22463_C001 CS_OFFL_SIR_IOPM_2_2020120ZT22316_2020120ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020120ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020120ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020120ZT223443_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020Z0ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020Z0ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020Z0ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT220140_2020Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0Z0	CS_OFFL_SIR_IOPM_2_20201202T203241_20201202T204822_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_2020120ZT212166_2020120ZT213613_C001 CS_OFFL_SIR_IOPM_2_2020120ZT21362_2020120ZT213613_C001 CS_OFFL_SIR_IOPM_2_2020120ZT21362_2020120ZT213613_C001 CS_OFFL_SIR_IOPM_2_2020120ZT213752_2020120ZT21301_C001 CS_OFFL_SIR_IOPM_2_2020120ZT21442_2020120ZT222153_C001 CS_OFFL_SIR_IOPM_2_2020120ZT221442_2020120ZT222153_C001 CS_OFFL_SIR_IOPM_2_2020120ZT2224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT2224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT2224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT2224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT2224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT2224623_C001 CS_OFFL_SIR_IOPM_2_2020120ZT223643_C001 CS_OFFL_SIR_IOPM_2_2020120ZT223643_C001 CS_OFFL_SIR_IOPM_2_2020120ZT23663_2020120ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT23043_2020120ZT23643_C001 CS_OFFL_SIR_IOPM_2_2020120ZT23043_2020120ZT225844_C001 CS_OFFL_SIR_IOPM_2_2020120ZT23043_2020120ZT258443_C001 CS_OFFL_SIR_IOPM_2_2020120ZT203142_2020120ZT25843_C001 CS_OFFL_SIR_IOPM_2_2020120ZT203142_2020120ZT120510_C001 CS_OFFL_SIR_IOPM_2_2020120ZT12058_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT12058_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT121668_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT121668_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT121668_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT121668_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT121668_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_2020120ZT121668_2020120ZT121630_C001 CS_OFFL_SIR_IOPM_2_20201	CS_OFFL_SIR_IOPM_2_20201202T205715_20201202T210620_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and tale COCO Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the COCO Altimeter Range and Backscatter Quality Flags have been set for one or or or records. CS_OFFL_SIR_IOPN_2_20201202T224953_20201202T225844_C001 CS_OFFL_SIR_IOPN_2_20201202T2031142_20201202T232443_C001 CS_OFFL_SIR_IOPN_2_20201202T203112_20201202T23116_C001 CS_OFFL_SIR_IOPN_2_20201202T203112_20201202T23116_C001 CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPN_2_20201202T120312_20201202T121600_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121600_C001 CS_OFFL_SIR_IOPN_2_20201202T121600_C0021202T121600_C001 CS_OFFL_SIR_IOPN_2_20201202T121600_C0021202T121600_C001 CS_OFFL_SIR_IOPN_2_20201202T121600_C0021202T121600_C001 CS_OFFL_SIR_IOPN_2_20201202T121600_C0021202T121600_C001 CS_OFFL_SIR_IOPN_2_20201202	CS_OFFL_SIR_IOPM_2_20201202T211504_20201202T211929_C001		
and Backscatter Quality, COCG Allimeter Range and Backscatter Quality and the OCCG Allimeter Range and Backscatter Quality and the OCCG Allimeter Range, SSHA, SWH and Backscatter Quality, COCG Allimeter Range and Backscatter Quality and the OCCG Allimeter Range, SSHA, SWH and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201202T222316_20201202T224623_C001 CS_OFFL_SIR_IOPM_2_20201202T222316_20201202T224623_C001 CS_OFFL_SIR_IOPM_2_20201202T222316_20201202T224623_C001 CS_OFFL_SIR_IOPM_2_20201202T2224953_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T224953_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T0050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T20312_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T120312_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120312_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120312_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120312_20201202T12630_C001 CS_OFFL_SIR_IOPM_2_20201202T120312_20201202T12630_C001 CS_OFFL_SIR_IOPM_2_20201202T12058_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121588_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121588_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121588_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T210620_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T210620_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121680_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121680_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121680_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121680_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121680_20201202T121630_C001 CCCG_Allimeter Range Quality, CCCG Backscatter Quality CCCG_Allimeter Range Allimeter Range and Backscatter Quality Fl	CS_OFFL_SIR_IOPM_2_20201202T212156_20201202T213613_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been ast for one or more records. CS_OFFL_SIR_IOPM_2_20201202T222316_20201202T224623_C001 CS_OFFL_SIR_IOPM_2_20201202T2224653_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T224653_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T224653_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T224653_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T2230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120500_C001 CS_OFFL_SIR_IOPM_2_20201202T120500_C001 CS_OFFL_SIR_IOPM_2_20201202T120500_C001 CS_OFFL_SIR_IOPM_2_20201202T120500_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_20201202T1210500_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_20201202T1210500_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_20201202T1210500_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_20201202T1210500_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_20201202T1210500_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_20201202T120500_20201202T121090_C001 CS_OFFL_SIR_IOPM_2_2020	CS_OFFL_SIR_IOPM_2_20201202T213752_20201202T214301_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20201202T224953_20201202T225844_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T12109_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T12109_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T12109_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T12109_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T12109_C001 CS_OFFL_SIR_IOPM_2_20201202T1210620_20201202T12109_C001 CCOG_Altimeter Range Quality, OCOG_Backscatter Quality, OCOG_Ba	CS_OFFL_SIR_IOPM_2_20201202T221442_20201202T222153_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001 CS_OFFL_SIR_IOPM_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T051116_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPM_2_20201202T12058_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPM_2_20201202T121680_20201202T121209_C001 CS_OFFL_SIR_IOPM_2_20201202T121660_20201202T211209_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality COGG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201202T210620_20201202T211209_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201202T210620_20201202T211209_C001 CCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOGG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20201202T222316_20201202T224623_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPN_2_20201202T050753_20201202T051116_C001 CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T12109_C001 CS_OFFL_SIR_IOPN_2_20201202T121602_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T121602_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T034201_202T034201_202T034201_202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_202T034201_202T034510_C001 CCG_Altimeter Range and Backscatter Quality, OCOG Backscatt	CS_OFFL_SIR_IOPM_2_20201202T224953_20201202T225844_C001	•	
Backscatter Quality CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 Backscatter Quality CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T1216020_20201202T12109_C001 Backscatter Quality CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001	CS_OFFL_SIR_IOPM_2_20201202T230142_20201202T232443_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_202T034510_C001 CS_OFFL_SIR_IOPR_2_20201202T034201_202T034510_C001	CS_OFFL_SIR_IOPN_2_20201202T050753_20201202T051116_C001		
CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 CS_OFFL_SIR_IOPN_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPN_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPN_2_20201202T034201_20201202T034510_C001 CS_OFFL_SIR_IOPN_2_20201202T034201_20201202T034510_C001	CS_OFFL_SIR_IOPN_2_20201202T120131_20201202T120510_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001 Backscatter Quality For one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPN_2_20201202T121508_20201202T121630_C001		
US OFFI SIR IOPR / /0/01/07/034/01 /0/01/07/07/07	CS_OFFL_SIR_IOPN_2_20201202T210620_20201202T211209_C001	9	, ,
	CS_OFFL_SIR_IOPR_2_20201202T034201_20201202T034510_C001		

CS_OFFL_SIR_IOPR_2_20201202T094842_20201202T094852_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201202T220742_20201202T220843_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: 90		
Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20201202T001631_20201202T001734_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_20201202T002614_20201202T002703_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_20201202T003609_20201202T004016_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_20201202T011817_20201202T011958_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_20201202T012727_20201202T012801_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_20201202T021808_20201202T022220_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_20201202T032613_20201202T032740_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_20201202T050753_20201202T051116_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_20201202T052816_20201202T052943_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_20201202T075303_20201202T075442_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_20201202T084550_20201202T084807_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_20201202T090149_20201202T090512_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_20201202T095942_20201202T100458_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_20201202T100929_20201202T101052_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_20201202T101802_20201202T101924_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_20201202T102135_20201202T102202_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_20201202T102209_20201202T102647_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_20201202T104251_20201202T104615_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_20201202T111127_20201202T111422_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_20201202T112048_20201202T112342_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_20201202T120131_20201202T120510_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_20201202T122410_20201202T122519_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	
	or one or
CS_OFFL_SIR_IOPN_2_20201202T152002_20201202T152134_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T153337_20201202T153500_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T153917_20201202T153934_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T161030_20201202T161156_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T161713_20201202T162019_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 and the OCOG Altimeter Range and the OCOG Alt	
CS_OFFL_SIR_IOPN_2_20201202T172604_20201202T172905_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T175015_20201202T175318_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 and the OCOG Altimeter Range and the OCOG Alt	
CS_OFFL_SIR_IOPN_2_20201202T175614_20201202T175954_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T184721_20201202T184807_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 and the OCOG Altimeter Range and the OCOG Alt	
CS_OFFL_SIR_IOPN_2_20201202T184818_20201202T185002_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 and the OCOG Altimeter Range and the OCOG Alt	•
CS_OFFL_SIR_IOPN_2_20201202T193053_20201202T193327_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 and the OCOG Altimeter Range and the OCOG Alt	
CS_OFFL_SIR_IOPN_2_20201202T193522_20201202T193746_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records. The OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T203119_20201202T203241_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T211929_20201202T212109_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 and the OCOG Altimeter Range and the OCOG Altimeter Range and the OCOG Altimeter Range and the OCOG Set for one or more records.	•
CS_OFFL_SIR_IOPN_2_20201202T220038_20201202T220120_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T220533_20201202T220742_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T222153_20201202T222316_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T225845_20201202T230047_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 and the OCOG Altimeter Range and the OCOG Alt	•
CS_OFFL_SIR_IOPN_2_20201202T232517_20201202T232823_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set in more records.	or one or
CS_OFFL_SIR_IOPN_2_20201202T234447_20201202T234933_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPR_2_20201202T002706_20201202T002928_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records.	or one or
CS_OFFL_SIR_IOPR_2_20201202T002950_20201202T003046_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been provided by the ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been provided by the ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have been provided by the ocean Altimeter Range and Backscatter Quality Flags have	•
CS_OFFL_SIR_IOPR_2_20201202T013006_20201202T013204_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 and the OCOG Altimeter Range and the OCOG Alt	
CS_OFFL_SIR_IOPR_2_20201202T020524_20201202T020630_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set to more records. The OCOG Range and Backscatter Quality Flags have been set to more records.	or one or

00 0FFL 0ID 10DD 0 00004000T0000F4 00004000T004000 0004	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20201202T020851_20201202T021808_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201202T025348_20201202T025825_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_20201202T031515_20201202T031833_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_20201202T034201_20201202T034510_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_20201202T034907_20201202T035701_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_20201202T043404_20201202T043739_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_20201202T044738_20201202T045144_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_20201202T052610_20201202T052816_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_20201202T052943_20201202T053713_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_20201202T062624_20201202T063014_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_20201202T070852_20201202T071606_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_20201202T075234_20201202T075303_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_20201202T080411_20201202T081038_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_20201202T084807_20201202T084902_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_20201202T084902_20201202T085458_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_20201202T085507_20201202T085522_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_20201202T094940_20201202T095042_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_20201202T102647_20201202T103357_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_20201202T120904_20201202T121412_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_20201202T124910_20201202T125104_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_20201202T130236_20201202T130521_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_20201202T135251_20201202T135414_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_20201202T142822_20201202T143054_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_20201202T144136_20201202T144550_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_20201202T152134_20201202T152803_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_20201202T152803_20201202T153045_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_20201202T154206_20201202T154240_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_20201202T155757_20201202T160100_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_20201202T160613_20201202T161030_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_20201202T162019_20201202T162406_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_20201202T165952_20201202T170703_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_20201202T170703_20201202T170845_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_20201202T171343_20201202T171721_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_20201202T174619_20201202T175015_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_20201202T175954_20201202T180041_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_20201202T192352_20201202T193053_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_20201202T201921_20201202T202442_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_20201202T202442_20201202T202559_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_20201202T214301_20201202T214500_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_20201202T215927_20201202T220038_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_20201202T220120_20201202T220201_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_20201202T220201_20201202T220533_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_20201202T220742_20201202T220843_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: 197

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: 61

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: 155

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).

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:

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

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 Corection, 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.

Description

Test Failed

- > 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.

30

- > 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

Product	l est Failed	Description
CS_OFFL_SIR_IOP_220201201T234353_20201202T003328_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_220201202T003328_20201202T012308_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_220201202T012308_20201202T021243_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_220201202T021243_20201202T030222_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_220201202T030222_20201202T035157_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_220201202T035157_20201202T044137_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_220201202T044137_20201202T053112_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_220201202T053112_20201202T062052_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_220201202T062052_20201202T071027_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_220201202T071027_20201202T080006_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_220201202T080006_20201202T084941_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_220201202T084941_20201202T093921_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_220201202T093921_20201202T102856_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) 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_220201202T102856_20201202T111836_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_220201202T111836_20201202T120811_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_220201202T120811_20201202T125750_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_220201202T125750_20201202T134725_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_220201202T134725_20201202T143705_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_220201202T143705_20201202T152640_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_220201202T152640_20201202T161620_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_220201202T161620_20201202T170555_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_220201202T170555_20201202T175534_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_220201202T175534_20201202T184509_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_220201202T184509_20201202T193449_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_220201202T193449_20201202T202424_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_220201202T202424_20201202T211404_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_220201202T211404_20201202T220339_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_220201202T220339_20201202T225318_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_220201202T225318_20201202T234253_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_220201202T234253_20201203T003233_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 29

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: 30

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: 30

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: 28

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.

Number of products with errors: 30

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	182	182	2	180	0
SIR_IOPR1B	115	106	4	102	0
SIR_IOPN1B	106	115	0	115	0
SIR_IOPM_2	182	182	123	59	0
SIR_IOPR_2	115	106	45	61	0
SIR_IOPN_2	106	115	35	79	1
SIR_IOP_P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

8

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

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

7.2 QCC Warnings

Number of QCC reports with warnings

2202

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	180	0	0	0	0	0	0
SIR_IOPM_2	0	0	40	44	1	49	0
SIR_IOPN1B	101	0	0	0	0	0	0
SIR_IOPN_2	0	0	11	37	2	24	31
SIR_IOPR1B	112	0	0	0	0	0	0
SIR_IOPR_2	0	1	37	46	1	31	20

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	36	0	35	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	13	0	0	0	25	0	36
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	10	1	0	45	0	51	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	28	0	0	10	27	0	1
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	32	19	48	57	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	43	0	2	65	27	8

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	1	0	0	6
SIR_IOPM_2	37	0	3	1	0	0	0
SIR_IOPN1B	0	0	0	0	0	48	5
SIR_IOPN_2	31	29	11	0	0	0	0
SIR_IOPR1B	0	0	0	0	0	115	5
SIR_IOPR_2	38	48	2	1	2	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	16	28	29	4	29		26

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	1	18	29	23	17	29	19
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
CDF 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	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
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:

Product name

No IOPX reports missing

Product name

CS_OFFL_SIR_IOP_2__20201202T234253_20201203T003233_C002