

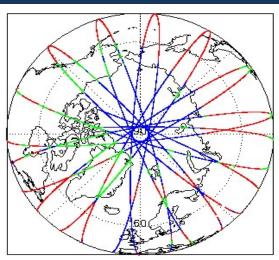
1. Overview

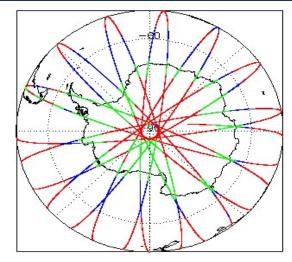
Report Production:	17-Nov-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

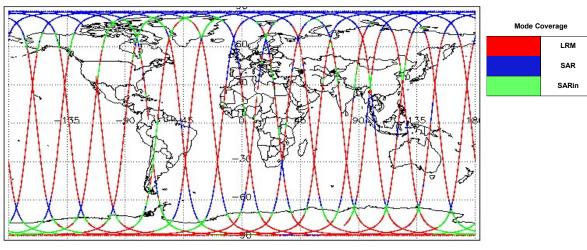
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instrument News		
08-Nov-202	2 None	
09-Nov-202	2 None	
10-Nov-202	2 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

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.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

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. The attitude correction is actually not missing. This will be resolved 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. The table provides the full list of products flagged.

Number of products with errors:

15

Product	Test Failed	Description
CS_OFFL_SIR_IOPN1B_20221109T100043_20221109T100155_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T114004_20221109T114229_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T114235_20221109T114447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T122326_20221109T122438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T150208_20221109T150650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T163253_20221109T163323_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T195148_20221109T195300_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221109T212922_20221109T213215_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T013922_20221109T014916_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T023723_20221109T024029_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T051342_20221109T051717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T081613_20221109T082033_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T153745_20221109T154222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T162005_20221109T162042_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221109T180525_20221109T180958_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 NetCDF product file (.nc).

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

lucts with errors:

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221109T100523_20221109T102305_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 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20221108T235709_20221109T000104_C001	Mean Sea Surface (1), Mean 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_20221109T005644_20221109T005835_C001	Mean Sea Surface (1), Mean 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_20221109T054510_20221109T054635_C001	Mean Sea Surface (1), Mean 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_20221109T055145_20221109T055453_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20221109T072553_20221109T072842_C001	Mean Sea Surface (1), Mean 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_20221109T073048_20221109T073615_C001	Mean Sea Surface (1), Mean 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_20221109T082143_20221109T082609_C001	Mean Sea Surface (1), Mean 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_20221109T090524_20221109T090759_C001	Mean Sea Surface (1), Mean 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_20221109T100043_20221109T100155_C001	Mean Sea Surface (1), Mean 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_20221109T103724_20221109T103905_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20221109T104239_20221109T104613_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001	Mean Sea Surface (1), Mean 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_20221109T114235_20221109T114447_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T122247_20221109T122323_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T122326_20221109T122438_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T123256_20221109T123517_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T132002_20221109T132428_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T150208_20221109T150650_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001	Mean Sea Surface (1), Mean 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_20221109T172146_20221109T172505_C001	Mean Sea Surface (1), Mean 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_20221109T173017_20221109T173143_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T190923_20221109T191031_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221109T195148_20221109T195300_C001	Mean Sea Surface (1), Mean 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_20221109T204627_20221109T204815_C001	Mean Sea Surface (1), Mean 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_20221109T212922_20221109T213215_C001	Mean Sea Surface (1), Mean 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_20221109T222457_20221109T223105_C001	Mean Sea Surface (1), Mean 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_20221109T230642_20221109T231100_C001	Mean Sea Surface (1), Mean 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_20221109T235534_20221109T235806_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221109T000105_20221109T000624_C001	Mean Sea Surface (1), Mean 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_20221109T013922_20221109T014916_C001	Mean Sea Surface (1), Mean 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_20221109T031655_20221109T032434_C001	Mean Sea Surface (1), Mean 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_20221109T033442_20221109T033549_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_IOPR_2_20221109T045532_20221109T050239_C001	Mean Sea Surface (1), Mean 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_20221109T050239_20221109T050403_C001	Mean Sea Surface (1), Mean 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_20221109T051342_20221109T051717_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221109T063449_20221109T064139_C001	Mean Sea Surface (1), Mean 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_20221109T064139_20221109T064418_C001	Mean Sea Surface (1), Mean 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_20221109T064607_20221109T065621_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221109T081613_20221109T082033_C001	Mean Sea Surface (1), Mean 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_20221109T082033_20221109T082143_C001	Mean Sea Surface (1), Mean 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_20221109T095409_20221109T095735_C001	Mean Sea Surface (1), Mean 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_20221109T095736_20221109T100043_C001	Mean Sea Surface (1), Mean 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_20221109T111345_20221109T111943_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221109T113352_20221109T114004_C001	Mean Sea Surface (1), Mean 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_20221109T131529_20221109T132002_C001	Mean Sea Surface (1), Mean 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_20221109T145259_20221109T150208_C001	Mean Sea Surface (1), Mean 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_20221109T163323_20221109T164110_C001	Mean Sea Surface (1), Mean 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_20221109T181343_20221109T182254_C001	Mean Sea Surface (1), Mean 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_20221109T195300_20221109T200018_C001	Mean Sea Surface (1), Mean 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_20221109T213215_20221109T213928_C001	Mean Sea Surface (1), Mean 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_20221109T231100_20221109T231756_C001	Mean Sea 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 (20 Hz)

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221109T002322_20221109T004418_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_20221109T004927_20221109T005301_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_20221109T005323_20221109T005644_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_20221109T010017_20221109T012820_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_20221109T015852_20221109T022346_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_20221109T022710_20221109T023216_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_20221109T023223_20221109T023550_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_20221109T024029_20221109T031321_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_20221109T032636_20221109T032815_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_20221109T033549_20221109T034051_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_20221109T035900_20221109T040230_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_20221109T040710_20221109T041249_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_20221109T042022_20221109T045239_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_20221109T052520_20221109T054058_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_20221109T055840_20221109T063400_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_20221109T064418_20221109T064607_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_20221109T070138_20221109T071913_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_20221109T073824_20221109T081225_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_20221109T082641_20221109T084502_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_20221109T084604_20221109T085940_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_20221109T091115_20221109T091501_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_20221109T091712_20221109T093221_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_20221109T093423_20221109T094346_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_20221109T100155_20221109T100316_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_20221109T100523_20221109T102305_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_20221109T103905_20221109T104028_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_20221109T104613_20221109T105403_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_20221109T105704_20221109T111127_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_20221109T114615_20221109T114802_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_20221109T114926_20221109T122102_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_20221109T122438_20221109T122651_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_20221109T122706_20221109T123256_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_20221109T123643_20221109T130108_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_20221109T133308_20221109T135937_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_20221109T141603_20221109T144322_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_20221109T144702_20221109T144941_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_20221109T145047_20221109T145259_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_20221109T150650_20221109T153745_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_20221109T154600_20221109T155138_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_20221109T155520_20221109T155922_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_20221109T162345_20221109T162508_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_20221109T163037_20221109T163220_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_20221109T164524_20221109T171811_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_20221109T172505_20221109T173017_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_20221109T173552_20221109T175204_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_20221109T180958_20221109T181022_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_20221109T182255_20221109T184620_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_20221109T184632_20221109T185656_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_20221109T190236_20221109T190505_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

COLONIL SIR LOPP 2 202110710102 2021107101015 COLO COMPLISE LOPP 2 202110710101 2021107101015 COLO COMPLISE LOPP 2 202110710101 2021107101015 COLO COMPLISE LOPP 2 202110710101 2021107101015 COLO COLONIL SIR LOPP 2 2021107101010 2021107100105 COLO COLONIL SIR LOPP 2 2021107100100 2021107100100 COLO COLONIL SIR LOPP 2 2021107100100 202110710010 COLO COLONIL SIR LOPP 2 2021107100100 COLO	CS_OFFL_SIR_IOPM_2_20221109T190512_20221109T190519_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CG CPFL SRI CPM 2 2021109T19419 2021109T194194 2021109T19419 2021109T19419 2021109T19419 2021109T19419 2021109T19419 2021109T194	CS_OFFL_SIR_IOPM_2_20221109T190522_20221109T190923_C001		
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Basicacter Gualty Cor. OFTL SIR (JOPM 2 202211091200142 202211091201442 CDB1 Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested County of Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been set of the Cor. Allented Region SIRIA, MOVI and Backacter Quality Flags have been allested Cor. Allented Region SIRIA, MOVI and Backacter Quality	CS_OFFL_SIR_IOPM_2_20221109T194029_20221109T194752_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control Cont	CS_OFFL_SIR_IOPM_2_20221109T194945_20221109T195148_C001		
CB_OFFL_SR_IOPM_2_20221100721015_2022102721030_C001 CB_OFFL_SR_IOPM_2_20221100722030_2027100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_2027100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_2027100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_2027100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_2027100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_2027100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_20221100720303_C001 CB_OFFL_SR_IOPM_2_202211007210073_C001 CB_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CB_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CB_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CB_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C00211007222003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C00211007220003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C00211007220003_C001 CCG_OFFL_SR_IOPM_2_20221100722003_C0021100722000	CS_OFFL_SIR_IOPM_2_20221109T200241_20221109T201442_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Badascater Quality, COOS Attender Range and Badascater Quality Rags have been Attender Range and Badascater Quality, COOS Attender Range and Badascater Quality, COOS Attender Range and Badascater Quality, COOS Attender Range and Badascater Quality Rags have been Attender Range and Badascater Quality Rags have been Attender Range and Badascater Quality Rags have been and Range Quality (COOS Attender Range and Badascater Quality) Rags have been set for one or more records CB_OFFL_SIR_IOPM_2_20221108T203442_20221109T204409_COO1 CB_OFFL_SIR_IOPM_2_20221108T204424_20221109T204409_COO1 CB_OFFL_SIR_IOPM_2_20221108T204424_20221109T204627_COO1 CB_OFFL_SIR_IOPM_2_20221108T204424_20221109T204627_COO1 CB_OFFL_SIR_IOPM_2_20221108T204424_20221109T204627_COO1 CB_OFFL_SIR_IOPM_2_20221108T204424_20221109T204627_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T204627_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T204629_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T204640_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T204640_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T204640_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T204640_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T204629_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CB_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CC_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CC_OFFL_SIR_IOPM_2_20221108T20467_20221109T20460_COO1 CC_OFFL_SIR_IOPM_2_20221108T20467_20221109T00460_CO	CS_OFFL_SIR_IOPM_2_20221109T201923_20221109T202055_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Brockscatter Quality COOD Affiniseder Range and Backscatter Quality Flags have been set for one or more secold. CS_OFFL_SIR_OPM_2_20221109T204448_20221109T204495_CO01 CS_OFFL_SIR_OPM_2_20221109T204444_20221109T204495_CO01 CS_OFFL_SIR_OPM_2_20221109T204444_20221109T204495_CO01 CS_OFFL_SIR_OPM_2_20221109T204444_20221109T204975_CO01 CS_OFFL_SIR_OPM_2_20221109T204978_20221109T219738_CO01 Affiniseder Range and Backscatter Quality Flags have been set for one or more secolds. CS_OFFL_SIR_OPM_2_20221109T204978_20221109T219738_CO01 Affiniseder Range SIRL_SWH and Backscatter Quality Flags have been set for one or more secolds. CS_OFFL_SIR_OPM_2_20221109T210978_20221109T21774_CO01 CS_OFFL_SIR_OPM_2_20221109T210978_20221109T217754_CO01 CS_OFFL_SIR_OPM_2_20221109T210978_20221109T217754_CO01 CS_OFFL_SIR_OPM_2_20221109T210978_20221109T21898_CO01 CS_OFFL_SIR_OPM_2_20221109T220978_20221109T221898_CO01 CS_OFFL_SIR_OPM_2_20221109T220978_20221109T222977_CO01 CS_OFFL_SIR_OPM_2_20221109T220978_20221109T222977_CO01 CS_OFFL_SIR_OPM_2_20221109T220978_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_2021109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T222978_2001 CS_OFFL_SIR_OPM_2_20221109T222978_CO01 CS_OFFL_SIR_OPM_2_20221109T223978_CO01 CS_OFFL_SIR_OPM_2_20221109T223984_QO01 CCS_OFFL_SIR_OPM_2_20221109T23987_QO01 CCS_OFFL_SIR_OPM_2_20221109	CS_OFFL_SIR_IOPM_2_20221109T202105_20221109T203213_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CG_OFFL_SIR_IOPM_2_20221100T20424_20221100T204350_2001 CG_OFFL_SIR_IOPM_2_20221100T205309_2022110T20738_C001 CG_OFFL_SIR_IOPM_2_20221100T205309_2022110T20738_C001 CG_OFFL_SIR_IOPM_2_20221100T205309_2022110T20738_C001 CG_OFFL_SIR_IOPM_2_20221100T205309_2022110T20738_C001 CG_OFFL_SIR_IOPM_2_20221100T21056_2022110T210T20738_C001 CG_OFFL_SIR_IOPM_2_2022110T210T20509_2022110T215540_C001 CG_OFFL_SIR_IOPM_2_2022110T2121540_C001 CG_OFFL_SIR_IOPM_2_2022110T2121540_C001 CG_OFFL_SIR_IOPM_2_2022110T221540_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T221540_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T221540_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T222332_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T222333_2022110T222335_C001 CG_OFFL_SIR_IOPM_2_2022110T223330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T223330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T22335_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T233541_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T233541_C001 CG_OFFL_SIR_IOPM_2_2022110T22330_2022110T233541_C001 CG_OFFL_SIR_IOPM_2_2022110T2233541_C001 CG_OFFL_SIR_IOPM_2_2022110T2233541_C001 CG_OFFL_SIR_IOPM_2_2022110T233541_C001 CG_OFFL_SIR_IOPM_2_2022110T233541_C001 CG_OFFL_SIR_IOPM_2_2022110T233541_C001 CG_OFFL_SIR_IOPM_2_2022110T253541_C001 CG_OFFL_SIR_IOPM_2_2022110T253541_C001 CG_OFFL_SIR_IOPM_2_2022110T253541_C001	CS_OFFL_SIR_IOPM_2_20221109T203309_20221109T203623_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221109T210559_20221109T21735_Q001 CS_OFFL_SIR_IOPM_2_20221109T210559_20221109T21754_Q001 CS_OFFL_SIR_IOPM_2_20221109T210559_20221109T21754_Q001 CS_OFFL_SIR_IOPM_2_20221109T210559_20221109T21754_Q001 CS_OFFL_SIR_IOPM_2_20221109T2109T210559_20221109T21754_Q001 CS_OFFL_SIR_IOPM_2_20221109T2109T210559_20221109T210574_Q001 CS_OFFL_SIR_IOPM_2_20221109T2109T210590_20221109T210574_Q001 CS_OFFL_SIR_IOPM_2_20221109T2109T210590_20221109T220317_Q001 CS_OFFL_SIR_IOPM_2_20221109T220221_Q001222317_Q001 CS_OFFL_SIR_IOPM_2_20221109T222317_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T222317_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T222317_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T222317_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_Q001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T230200_Q001 CS_OFFL_SIR_IOPM_2_20221109T2323109_20221109T230200_Q001 CS_OFFL_SIR_IOPM_2_20221109T01323000_Q001 CS_OFFL_SIR_IOPM_2_20221109T01323000_Q001 CS_OFFL_SIR_IOPM_2_20221109T01323000_Q001 CS_OFFL_SIR_IOPM_2_20221109T01323000_Q001 CS_OFFL_SIR_IOPM_2_20221109T01323000_Q001 CS_OFFL_SIR_IOPM_2_	CS_OFFL_SIR_IOPM_2_20221109T203846_20221109T204405_C001		
and Backscatter Quality Flags have been stimeter Range and Backscatter Quality Range Range Ran	CS_OFFL_SIR_IOPM_2_20221109T204424_20221109T204627_C001		
CS_OFFL_SIR_IOPM_2_20221109T210956_20221109T215846_C001 CS_OFFL_SIR_IOPM_2_20221109T214915_20221109T215846_C001 CS_OFFL_SIR_IOPM_2_20221109T214915_20221109T215846_C001 CS_OFFL_SIR_IOPM_2_20221109T214915_20221109T215846_C001 CS_OFFL_SIR_IOPM_2_20221109T214915_20221109T221518_C001 CS_OFFL_SIR_IOPM_2_20221109T220122_20221109T221518_C001 CS_OFFL_SIR_IOPM_2_20221109T220122_20221109T222317_C001 CS_OFFL_SIR_IOPM_2_20221109T220122_20221109T22335_C001 CS_OFFL_SIR_IOPM_2_20221109T222331_20221109T222337_C001 CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222357_C001 CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222317_C001 CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222317_C001 CS_OFFL_SIR_IOPM_2_20221109T2230109T222345_C001 CS_OFFL_SIR_IOPM_2_20221109T2230109T22337_C001 CS_OFFL_SIR_IOPM_2_20221109T2230109T22337_C001 CS_OFFL_SIR_IOPM_2_20221109T2230109T22337_C001 CS_OFFL_SIR_IOPM_2_20221109T2230109T22337_C001 CS_OFFL_SIR_IOPM_2_20221109T223009_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T033827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T033827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T033827_20221109T235414_C001 CS_O	CS_OFFL_SIR_IOPM_2_20221109T205509_20221109T210738_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality CoCG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality COCG Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T221812_20221109T222317_C001 CS_OFFL_SIR_IOPM_2_20221109T222332_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222355_C001 CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222457_C001 CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222373_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T22547_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T22547_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T22547_20221109T22573_C001 CS_OFFL_SIR_IOPM_2_20221109T22547_20221109T22573_C001 CCGA Altimeter Range Quality, CCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one o	CS_OFFL_SIR_IOPM_2_20221109T210956_20221109T212754_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCO Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T22233_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222332_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222332_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222331_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222331_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222331_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T222331_20221109T222335_C001 CS_OFFL_SIR_IOPM_2_20221109T2223109_20221109T2223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 CS_OFFL_SIR_IOPM_2_20221109T225547_20221109T2355414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T2355414_C001 CS_OFFL_SIR_IOPM_2_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T0001743_20221109T0001743_20221109T0000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20221109T214915_20221109T215846_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221109T22333_20221109T222335_C001 DCGG Altimeter Range Quality, OCGG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222345_C001 DCGG Altimeter Range Quality, OCGG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T223319_20221109T223137_C001 DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T223457_20221109T223137_C001 DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T22573_C001 DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T225904_20221109T230209_C001 DCGG Altimeter Range Quality, OCGG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records DCGG Altimete	CS_OFFL_SIR_IOPM_2_20221109T220122_20221109T221518_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222457_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 CS_OFFL_SIR_IOPM_2_20221109T225904_20221109T2352723_C001 CS_OFFL_SIR_IOPM_2_20221109T225904_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T114004_20221109T114229_C001 CS_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 CS_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 CS_OFFL_SIR_IOPM_2_20221109T132948_20221109T132948_20221109T133227_C001 CCG_Altimeter Range Quality, CCGGAItimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221109T132948_20221109T132290 CCG_Altimeter Range Quality, CCGGAItimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 CCG_Altimeter Range Quality, CCGGAItimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 CCG_Altimeter Range Quality, CCGGAItimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2_20221109T132948_20221109T133297_C001 CCG_Altimeter Range Quality, CCGGAITIMETERA	CS_OFFL_SIR_IOPM_2_20221109T221812_20221109T222317_C001		
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 Cs_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001 Cs_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 Cs_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 Cs_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001 Cs_OFFL_SIR_IOPM_2_20221109T225904_20221109T230209_C001 Cs_OFFL_SIR_IOPM_2_20221109T225904_20221109T230209_C001 Cs_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 Cs_OFFL_SIR_IOPM_2_20221109T233827_20221109T002119_C001 Cs_OFFL_SIR_IOPM_2_20221109T001743_20221109T002119_C001 Cs_OFFL_SIR_IOPM_2_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20221109T001743_20201109T001743_20001 Cs_OFFL_SIR_IOPM_2_20221109T114004_20221109T114229_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cs_OFFL_SIR_IOPM_2_20221109T132948_20221109T133227_C001 Cc_OGA Altimeter Range Quality, OCOG Backscatter Quality, OC	CS_OFFL_SIR_IOPM_2_20221109T222323_20221109T222335_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T23521_C001 CS_OFFL_SIR_IOPM_2_20221109T225904_20221109T230209_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T0002119_C001 CS_OFFL_SIR_IOPM_2_20221109T0002119_C001 CS_OFFL_SIR_IOPM_2_20221109T00002119_C001 CS_OFFL_SIR_IOPM_2_20221109T0000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20221109T222341_20221109T222457_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221109T225904_20221109T230209_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T033827_20221109T035414_C001 CS_OFFL_SIR_IOPM_2_20221109T001743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T001743_20221109T002119_C001 CS_OFFL_SIR_IOPM_2_20221109T01743_20221109T001743_202	CS_OFFL_SIR_IOPM_2_20221109T223109_20221109T223137_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001 CS_OFFL_SIR_IOPM_2_20221109T001743_20221109T002119_C001 CS_OFFL_SIR_IOPN_2_20221109T01743_20221109T002119_C001 CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001 CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T133227_C001 Backscatter Quality COCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001 CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 DCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20221109T225457_20221109T225723_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221109T0313827_20221109T035414_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20221109T001743_20221109T002119_C001 CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001 CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001 CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG Backscatter	CS_OFFL_SIR_IOPM_2_20221109T225904_20221109T230209_C001		
Backscatter Quality CS_OFFL_SIR_IOPN_2_20221109T01743_20221109T114229_C001 CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001 CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 Backscatter Quality CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 Backscatter Quality CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001 CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001	CS_OFFL_SIR_IOPM_2_20221109T233827_20221109T235414_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPN_2_20221109T001743_20221109T002119_C001		
Backscatter Quality for one or more records CS_OFFL_SIR_IOPN_2_20221109T152940_20221109T153227_0001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPN_2_20221109T154222 20221109T154600_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPN_2_20221109T114004_20221109T114229_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPN_2_20221109T132948_20221109T133227_C001		
	CS_OFFL_SIR_IOPN_2_20221109T154222_20221109T154600_C001		

CS_OFFL_SIR_IOPN_2_20221109T163253_20221109T163323_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_20221109T032815_20221109T032930_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221109T045532_20221109T050239_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_20221109T082609_20221109T082641_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20221109T091642_20221109T091712_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_20221109T162005_20221109T162042_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_IOPR_2_20221109T173143_20221109T173552_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

L2 Quality Flags (20 Hz 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221109T001600_20221109T001702_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_20221109T001743_20221109T002119_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_20221109T002148_20221109T002201_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_20221109T004655_20221109T004927_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_20221109T005301_20221109T005308_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_20221109T023550_20221109T023723_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_20221109T031321_20221109T031512_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_20221109T031538_20221109T031558_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_20221109T040556_20221109T040710_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_20221109T055145_20221109T055453_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_20221109T070047_20221109T070138_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_20221109T072553_20221109T072842_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_20221109T073048_20221109T073615_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_20221109T081519_20221109T081613_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_20221109T082143_20221109T082609_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_20221109T090524_20221109T090759_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_20221109T090959_20221109T091115_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_20221109T100043_20221109T100155_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_20221109T102305_20221109T102908_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_20221109T102939_20221109T103506_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_20221109T103724_20221109T103905_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_20221109T104239_20221109T104613_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_20221109T114004_20221109T114229_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_20221109T114235_20221109T114447_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_20221109T114802_20221109T114926_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_20221109T122247_20221109T122323_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_20221109T122326_20221109T122438_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_20221109T130108_20221109T130446_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_20221109T131342_20221109T131358_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_20221109T131457_20221109T131529_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_20221109T132002_20221109T132428_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_20221109T132508_20221109T132631_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_20221109T132948_20221109T133227_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_20221109T140222_20221109T140402_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_20221109T150208_20221109T150650_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_20221109T154222_20221109T154600_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_20221109T160838_20221109T161030_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_20221109T162042_20221109T162239_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_20221109T162941_20221109T163037_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_20221109T164333_20221109T164524_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_20221109T172146_20221109T172505_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_20221109T173017_20221109T173143_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_20221109T175204_20221109T175517_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

	PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221109T185900_20221109T190236_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_20221109T190923_20221109T191031_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_20221109T203707_20221109T203846_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_20221109T212922_20221109T213215_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_20221109T214527_20221109T214915_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_20221109T221626_20221109T221812_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_20221109T222457_20221109T223105_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_20221109T230642_20221109T231100_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_20221109T231756_20221109T231803_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_20221109T235534_20221109T235806_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_20221109T000105_20221109T000624_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_20221109T000658_20221109T000802_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_20221109T004418_20221109T004655_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_20221109T013922_20221109T014916_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_20221109T022346_20221109T022538_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_20221109T023723_20221109T024029_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_20221109T031515_20221109T031524_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_20221109T031655_20221109T032434_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_20221109T032815_20221109T032930_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_20221109T040230_20221109T040556_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_20221109T041607_20221109T042022_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_20221109T045532_20221109T050239_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_20221109T050239_20221109T050403_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_20221109T050754_20221109T051134_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_20221109T051342_20221109T051717_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_20221109T054058_20221109T054510_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_20221109T055453_20221109T055840_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_20221109T063449_20221109T064139_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_20221109T064139_20221109T064418_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_20221109T071913_20221109T072553_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_20221109T073615_20221109T073824_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_20221109T082033_20221109T082143_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_20221109T084502_20221109T084604_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_20221109T085940_20221109T090524_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_20221109T095409_20221109T095735_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_20221109T111127_20221109T111241_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_20221109T111345_20221109T111943_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_20221109T113352_20221109T114004_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_20221109T114548_20221109T114615_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_20221109T131529_20221109T132002_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_20221109T135937_20221109T140222_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_20221109T144941_20221109T145047_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_20221109T145259_20221109T150208_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_20221109T153745_20221109T154222_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_20221109T163323_20221109T164110_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_20221109T171811_20221109T172146_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_20221109T173143_20221109T173552_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_20221109T180525_20221109T180958_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_20221109T181343_20221109T182254_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_20221109T185656_20221109T185900_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_20221109T191031_20221109T191419_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_20221109T195300_20221109T200018_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_20221109T204815_20221109T205243_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_20221109T210744_20221109T210956_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_20221109T213215_20221109T213928_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_20221109T215847_20221109T215912_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_20221109T215914_20221109T220122_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_20221109T231100_20221109T231756_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_20221109T233245_20221109T233529_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_20221109T235414_20221109T235534_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 & 1 Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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: 63

L2 Retracking Flags (20 Hz 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. The number of products with this error flag set is given below.

Number of products with errors: 158

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

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:

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 check.

- > 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220221108T231401_20221109T000339_C001	Mean Sea Surface (1), Mean 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_220221109T000339_20221109T005316_C001	Mean Sea Surface (1), Mean 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_220221109T005316_20221109T014254_C001	Mean Sea Surface (1), Mean 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_220221109T014254_20221109T023230_C001	Mean Sea Surface (1), Mean 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_220221109T023230_20221109T032208_C001	Mean Sea Surface (1), Mean 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_220221109T032208_20221109T041145_C001	Mean Sea Surface (1), Mean 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_220221109T041145_20221109T050123_C001	Mean Sea Surface (1), Mean 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_220221109T050123_20221109T055100_C001	Mean Sea Surface (1), Mean 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_220221109T055100_20221109T064038_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220221109T064038_20221109T073014_C001	Mean Sea Surface (1), Mean 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_220221109T073014_20221109T081952_C001	Mean Sea Surface (1), Mean 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_220221109T081952_20221109T090929_C001	Mean Sea Surface (1), Mean 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_220221109T090929_20221109T095907_C001	Mean Sea Surface (1), Mean 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_220221109T095907_20221109T104843_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220221109T104843_20221109T113822_C001	Mean Sea Surface (1), Mean 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_220221109T113822_20221109T122758_C001	Mean Sea Surface (1), Mean 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_220221109T122758_20221109T131736_C001	Mean Sea Surface (1), Mean 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_220221109T131736_20221109T140713_C001	Mean Sea Surface (1), Mean 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_220221109T140713_20221109T145651_C001	Mean Sea Surface (1), Mean 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_220221109T145651_20221109T154628_C001	Mean Sea Surface (1), Mean 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_220221109T154628_20221109T163606_C001	Mean Sea Surface (1), Mean 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_220221109T163606_20221109T172542_C001	Mean Sea Surface (1), Mean 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_220221109T172542_20221109T181520_C001	Mean Sea Surface (1), Mean 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_220221109T181520_20221109T190457_C001	Mean Sea Surface (1), Mean 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_220221109T190457_20221109T195435_C001	Mean Sea Surface (1), Mean 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_220221109T195435_20221109T204412_C001	Mean Sea Surface (1), Mean 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_220221109T204412_20221109T213350_C001	Mean Sea Surface (1), Mean 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_220221109T213350_20221109T222326_C001	Mean Sea Surface (1), Mean 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_220221109T222326_20221109T231304_C001	Mean Sea Surface (1), Mean 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_220221109T231304_20221110T000241_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

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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. The number of P2P products affected is given below.

Number of products with errors:

P2P Quality Flags (20 Hz 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. The number of P2P products affected is given below.

Number of products with errors: 2

P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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: 2

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: 3

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	175	175	5	170	0
SIR_IOPR1B	123	107	5	102	0
SIR_IOPN1B	107	123	0	123	0
SIR_IOPM_2	175	175	127	48	0
SIR_IOPR_2	123	107	40	67	0
SIR_IOPN_2	107	123	39	83	1
SIR IOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors: Product Type RLOBOPNCDF

3

RLOBOPNCDF

2247

Total number	of	occurrences	of	each error

SIR_IOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	1	1	1	1							

Fest 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

	rotal number of occurrences of each warning								
	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
ı	SIR_IOPM1B	170	0	0	0	0	0	0	
	SIR_IOPM_2	0	0	36	37	1	40	0	
	SIR_IOPN1B	101	0	0	0	0	0	0	
	SIR_IOPN_2	0	0	11	32	3	26	31	
	SIR_IOPR1B	118	0	0	0	0	0	0	
	SIR_IOPR_2	0	1	41	49	0	34	28	

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	35	0	29	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	20	1	0	0	28	0	34
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	15	5	n	50	n	58	n

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	22	0	0	4	32	0	5
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	27	22	50	52	37
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	47	0	1	71	43	10

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	1	0	0	0
SIR_IOPM_2	32	0	5	1	0	0	0
SIR_IOPN1B	0	0	0	0	0	47	1
SIR_IOPN_2	29	30	15	0	1	0	0
SIR_IOPR1B	0	0	0	0	0	123	4
SIR_IOPR_2	41	48	2	0	3	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOP_2_	16	29	29	2	29	18	28

	Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
	SIR_IOP_2_	5	19	29	22	19	29	18

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	•
SIR IOP 2	25	28	10	14	29		

Test Description Key:	I - ,	Details				
Abbreviation	Test name					
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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 F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
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:

L1B and L2 Product name

P2P Product name
CS_OFFL_SIR_IOP_2__20221109T231304_20221110T000241_C002