

## 1. Overview

Report Production:	02-Feb-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

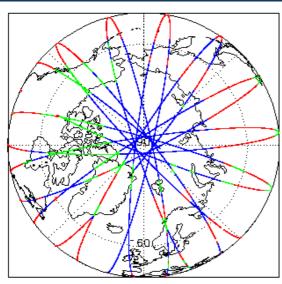
#### We would love to hear from you!

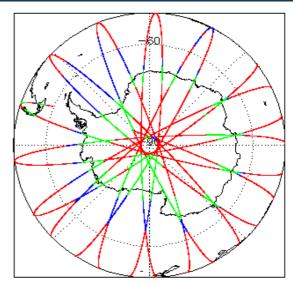
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

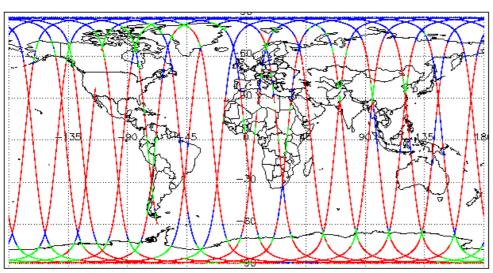
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

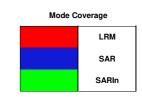
Mission / Ins	trument News
03-Jan-202	None
04-Jan-202	None
05-Jan-202	Nothing planned

# 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. GOP Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 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 GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

#### 4.6 L1B Waveform Group Data Check

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

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

16

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230104T064417_20230104T065916_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230104T100256_20230104T102803_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230104T191649_20230104T192714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T023128_20230104T023220_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T072815_20230104T072922_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T073024_20230104T073137_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T090731_20230104T091325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T104059_20230104T104123_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T181348_20230104T181544_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230104T203307_20230104T203819_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230104T004430_20230104T005201_C001	Loss of Echo	The tracking echo is missing for one or more records

#### 5. GOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

#### 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:

CS OFFL SIR GOPR1B 20230104T051948 20230104T052037 C001

CS OFFL SIR GOPR1B 20230104T073719 20230104T073934 C001

CS\_OFFL\_SIR\_GOPR1B\_20230104T103845\_20230104T104059\_C001

#### 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.

Loss of Echo

Loss of Echo

Loss of Echo

Number of products 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:

#### 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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that 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.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230104T064417_20230104T065916_C001	IMean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230104T070146_20230104T071109_C001		There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_GOPM_2_20230104T191649_20230104T192714_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230104T222542_20230104T222643_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T000319_20230104T000456_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T013327_20230104T013444_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T014016_20230104T014333_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T031248_20230104T031404_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T031913_20230104T032225_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 height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20230104T045346_20230104T045621_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T045818_20230104T050352_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T063241_20230104T063525_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T072815_20230104T072922_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T080316_20230104T080552_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 height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20230104T081114_20230104T081328_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T090731_20230104T091325_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T100017_20230104T100244_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T104745_20230104T105149_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T112949_20230104T113131_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T122946_20230104T123348_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T131000_20230104T131329_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T144911_20230104T145232_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T145746_20230104T145910_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T153933_20230104T154120_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T163646_20230104T163755_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T171919_20230104T172026_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T181348_20230104T181544_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T185725_20230104T185941_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T203307_20230104T203819_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 height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20230104T212301_20230104T212601_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T213231_20230104T213516_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230104T221309_20230104T221643_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T004430_20230104T005201_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T010114_20230104T010311_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPR_2_20230104T021937_20230104T023003_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T023003_20230104T023128_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T040226_20230104T040903_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T040903_20230104T042351_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20230104T054331_20230104T054754_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T054754_20230104T054906_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T062744_20230104T063240_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T072135_20230104T072517_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T072517_20230104T072814_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T073719_20230104T073934_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T090054_20230104T090730_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T104251_20230104T104745_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T121958_20230104T122945_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T135951_20230104T140837_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T154120_20230104T154906_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T172027_20230104T172740_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T183511_20230104T183724_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T185942_20230104T190625_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T203820_20230104T204434_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T221643_20230104T221719_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230104T221719_20230104T222542_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

#### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

# 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230103T235950_20230104T000318_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_GOPM_2_20230104T000713_20230104T004116_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_GOPM_2_20230104T012633_20230104T012755_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_GOPM_2_20230104T012954_20230104T013241_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_GOPM_2_20230104T014614_20230104T021936_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_GOPM_2_20230104T023318_20230104T023432_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_GOPM_2_20230104T025241_20230104T031159_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_GOPM_2_20230104T031404_20230104T031913_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_GOPM_2_20230104T032458_20230104T035855_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_GOPM_2_20230104T042352_20230104T042827_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_GOPM_2_20230104T042908_20230104T044647_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_GOPM_2_20230104T045621_20230104T045817_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_GOPM_2_20230104T050508_20230104T051916_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_GOPM_2_20230104T052037_20230104T052237_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_GOPM_2_20230104T052718_20230104T053414_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_GOPM_2_20230104T053915_20230104T053940_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_GOPM_2_20230104T054016_20230104T054032_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_GOPM_2_20230104T055426_20230104T061157_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_GOPM_2_20230104T061335_20230104T062743_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_GOPM_2_20230104T063830_20230104T064230_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_GOPM_2_20230104T064417_20230104T065916_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_GOPM_2_20230104T070146_20230104T071109_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_GOPM_2_20230104T071709_20230104T071717_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_GOPM_2_20230104T072922_20230104T073024_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_GOPM_2_20230104T073934_20230104T075015_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_GOPM_2_20230104T075622_20230104T080315_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_GOPM_2_20230104T080552_20230104T081021_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_GOPM_2_20230104T081328_20230104T082133_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_GOPM_2_20230104T082355_20230104T083904_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_GOPM_2_20230104T085215_20230104T085250_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

20 OPFL SR GOPM 2 2020906119419 202010119601 CODY BESCHOOL READY BESCHO	CS_OFFL_SIR_GOPM_2_20230104T091544_20230104T094938_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
December   Color   C	CS_OFFL_SIR_GOPM_2_20230104T095210_20230104T095416_C001		, ,
Description	CS_OFFL_SIR_GOPM_2_20230104T095448_20230104T100017_C001		
See OFFL SR GOPM 2 2020104T119192 2020104T129185 0001  Open Allmeier Regun Coally, COOD  Allmeier Regun	CS_OFFL_SIR_GOPM_2_20230104T100255_20230104T102803_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
South Service County  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121919_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121939_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121939_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121939_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121939_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T121939_92020104T131939_0001  CS_CFR_SR_GOPM_2_92020104T121939_0001  CS_CFR_SR_GOPM_2_92020104T131939_0001  CS_CFR_SR_GOPM_2_92020104T131939_00014T19193_0001  CS_CFR_SR_GOPM_2_92020104T131939_00014T19193_0001  CS_CFR_SR_GOPM_2_92020104T131939_00014T19193_0001  CS_CFR_SR_GOPM_2_92020104T19193_00014T19193_0001  CS_CFR_SR_GOPM_2_92020104T19193_00014T19193_00014T19193_00014T19193_00014T19193_00014T19193_00014T19193_00014T19193_00014T19193_00014T19193_00014T1	CS_OFFL_SIR_GOPM_2_20230104T110127_20230104T112737_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SIR COPM 2 2020104T12199 2020104T12099 2020104T1	CS_OFFL_SIR_GOPM_2_20230104T113419_20230104T113906_C001		
Sackscaler Quality  CS_OFFL_SIR_OOPM_2_20220104112598_2020104112999_C001  CS_OFFL_SIR_OOPM_2_20220104112598_202010411999_C001  CS_OFFL_SIR_OOPM_2_202201041130392_202010411999_C001  CS_OFFL_SIR_OOPM_2_202201041130392_202010411999_C001  CS_OFFL_SIR_OOPM_2_202201041130392_202010411999_C001  CS_OFFL_SIR_OOPM_2_202201041130392_202010411999_C001  CS_OFFL_SIR_OOPM_2_202201041130392_202010411999_C001  CS_OFFL_SIR_OOPM_2_202201041130392_2020104119995_C001  CS_OFFL_SIR_OOPM_2_20220104114597_2022010411999_C001  CS_OFFL_SIR_OOPM_2_20220104114597_2022010411999_C001  CS_OFFL_SIR_OOPM_2_20220104114597_2022010411999_C001  CS_OFFL_SIR_OOPM_2_20220104114597_2022010411999_C001  CS_OFFL_SIR_OOPM_2_20220104114597_2022010411999_C001  CS_OFFL_SIR_OOPM_2_20220104114597_20220104114598_C001  CS_OFFL_SIR_OOPM_2_20220104114599_2022010411999_C001  CS_OFFL_SIR_OOPM_2_2022010411999_C001  CS_OFFL_SIR_OOPM_2_20220104	CS_OFFL_SIR_GOPM_2_20230104T114156_20230104T121006_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Galdwarder Guilly, COOD Allmorer Range and Backscater Cually, COOD Allmorer Range and Backscater Cually Span have been Allmorer Range and Backscater Cually. Cool Coes. Allmorer Range and Backscater Cually Span and the COOD Allmorer Range and Backscater Cually Range and Backscater Cually Span and the COOD Allmorer Range and Backscater Cually Range and Backscater Cually Span and the COOD Allmorer Range and Backscater Cually Range have been all the Cually Range and Backscater Cually Range have been and backscater Cually Span have been and the Cually Range and Backscater Cually Range have been and backscater Cually Span have been set for one or none records.  CS. OFFL SIR GOPM 2 2020104T140552 2020104T16955 C001  CS. OFFL SIR GOPM 2 2020104T16955 2020104T16955 C001  CS. OFFL SIR GOPM 2 2020104T176552 2020104T176955 C001  CS. OFFL SIR GOPM 2 2020104T176552 2020104T176955 C001  CS. OFFL SIR GOPM 2 2020104T176552 2020104T17695 C001  CS	CS_OFFL_SIR_GOPM_2_20230104T121019_20230104T121045_C001		
and dead-accenter Quality Flogs have been and the COGA Altimeter Range and Backscatter Quality Flogs have been set to one or more records.  CS_OFFL_SIR_GOPM_2_202201041131929_202201041131859_C001  CS_OFFL_SIR_GOPM_2_20220104113292_202201041132947_C001  Altimeter Range and Backscatter Quality Flogs have been set to one or more records.  CS_OFFL_SIR_GOPM_2_202201041132947_202201041132947_C001  Altimeter Range and Backscatter Quality Flogs have been set to one or more records.  CS_OFFL_SIR_GOPM_2_202201041132947_202201041132947_C001  CS_OFFL_SIR_GOPM_2_202201041132947_202201041132947_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143951_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143746_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143746_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143746_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143746_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143746_C001  CS_OFFL_SIR_GOPM_2_20220104114317_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041143746_C001  CS_OFFL_SIR_GOPM_2_202201041146487_C001  CS_OFFL_SIR_GOPM_2_20220104116245_C001  CS_OFFL_SIR_GOPM_2_20220104116245_C001  CS_OFFL_SIR_GOPM_2_20220104116245_C001  CS_OFFL_SIR_GOPM_2_20220104116245_C001  CS_OFFL_SIR_GOPM_2_20220104116245_C001  CCC_OCA Alterneter Range Quality, COCO  Alterneter Range and Backscatter Quality Flags have been set to one or more records.  CCC_OCA Alterneter Range Quality, COCO  Alterneter Range Quality, COCO  Alterneter Range and Backscatter Quality Flags have been set to one or more records.  CCC_OCA Alterneter Range Quality, COCO  Alterneter Range Quality, COCO  Alterneter Range Quality, COCO  Alterneter Range Quality, COCO  Alterneter Range and Backscatter Quality Flags have been set to one or more records.  CCC_OCA Alterneter Range Q	CS_OFFL_SIR_GOPM_2_20230104T121849_20230104T121958_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Boxcaster Quality  CS_OFFL_SIR_GOPM_2_20230104T18205_20230104T182847 C001  CS_OFFL_SIR_GOPM_2_20230104T18205_20230104T182845 C001  CS_OFFL_SIR_GOPM_2_20230104T18137_20230104T18285_202301	CS_OFFL_SIR_GOPM_2_20230104T123348_20230104T130702_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 set for one or more records  CS_OFFL_SIR_GOPM_2_20230104T135750_20230104T135951_CO01  CS_OFFL_SIR_GOPM_2_20230104T135750_20230104T145951_CO01  CS_OFFL_SIR_GOPM_2_20230104T145776_CO01  CS_OFFL_SIR_GOPM_2_20230104T145776_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T145736_CO01  CS_OFFL_SIR_GOPM_2_20230104T16505_ZO020104T16505_CO01  CS_OFFL_SIR_GOPM_2_20230104T16505_ZO020104T17507_CO01  CS_OFFL_SIR_GOPM_2_20230104T17505_ZO020104T17507_CO01  CS_OFFL_SIR_GOPM_2_20230104T17505_ZO020104T17507_CO01  CS_OFFL_SIR_GOPM_2_20230104T17505_ZO020104T17518_CO01  CS_OFFL_SIR_GOPM_2_20230104T17518_ZO020104T17518_CO01  CS_OFFL_SIR_GOPM_2_20230104T17518_ZO020104T17518_CO01  CS_OFFL_SIR_GOPM_2_20230104T17518_ZO020104T17518_CO01  CS_OFFL_SIR_GOPM_2_20230104T17518_ZO020104T17518_CO01  CS_OFFL_SIR_GOPM_2_20230104T17518_ZO020104T17518_CO01  CS_OFFL_SIR_GOPM_2_20230104T17518_ZO020104T175130_ZO00104T160032_CO01  CS_OFFL_SIR_GOPM	CS_OFFL_SIR_GOPM_2_20230104T131329_20230104T131859_C001		
CS_OFFL_SIR_GOPM_2_20230104T141317_20230104T14648_C001  CS_OFFL_SIR_GOPM_2_20230104T141317_20230104T14648_C001  CS_OFFL_SIR_GOPM_2_20230104T141317_20230104T14648_C001  CS_OFFL_SIR_GOPM_2_20230104T145312_20230104T14648_C001  CS_OFFL_SIR_GOPM_2_20230104T14533_20230104T145746_C001  CS_OFFL_SIR_GOPM_2_20230104T14533_20230104T145746_C001  CS_OFFL_SIR_GOPM_2_20230104T165121_20230104T165455_C001  CS_OFFL_SIR_GOPM_2_20230104T165121_20230104T165455_C001  CS_OFFL_SIR_GOPM_2_20230104T165121_20230104T165455_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163455_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163455_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163455_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T16313_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T17637_C001  CS_OFFL_SIR_GOPM_2_20230104T17631_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T176364_20230104T176364_C001  CS_OFFL_SIR_GOPM_2_20230104T17646_20230104T18648_C001  CS_OFFL_SIR_GOPM_2_20230104T17646_20230104T18648_C001  CS_OFFL_SIR_GOPM_2_20230104T17646_20230104T18648_C001  CS_OFFL_SIR_GOPM_2_20230104T17646_20230104T18648_C001  CS_OFFL_SIR_GOPM_2_2	CS_OFFL_SIR_GOPM_2_20230104T132055_20230104T132647_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20230104T145393_20230104T145746_C0011  CS_OFFL_SIR_GOPM_2_20230104T145952_20230104T151925_C0011  CS_OFFL_SIR_GOPM_2_20230104T145952_20230104T151925_C0011  CS_OFFL_SIR_GOPM_2_20230104T145952_20230104T161925_C0011  CS_OFFL_SIR_GOPM_2_20230104T155121_20230104T16255_C0011  CS_OFFL_SIR_GOPM_2_20230104T155121_20230104T16255_C0011  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T162833_C0011  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T163233_C0011  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T163846_C0011  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T163646_C0011  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T17507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T1784037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171507_C0011  CS_OFFL_SIR_GOPM_2_20230104T17164037_20230104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_20030104T171640307_	CS_OFFL_SIR_GOPM_2_20230104T135750_20230104T135951_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20230104T145952_20230104T151925_C001  CS_OFFL_SIR_GOPM_2_20230104T145952_20230104T151925_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T162455_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T162833_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T162833_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T162845_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T17507_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T17431_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T17431_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T17431_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T174452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T174452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T175432_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T18133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS	CS_OFFL_SIR_GOPM_2_20230104T141317_20230104T144648_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCCQ Altimeter Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range Quality, OCOG Backscatter Quality Flags have been at Interfer Range Quality, OCOG Backscatter Quality Flags have been at Interfer Range Quality, OCOG Backscatter Quality Flags have been at Interfer Range All Backscatter Quality Flags have been at Interfer Range All Backscatter Quality Flags have been at Interfer Range All Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range and Backscatter Quality Flags have been at Interfer Range Altimeter Range Range Range Range Range Range Range Rang	CS_OFFL_SIR_GOPM_2_20230104T145233_20230104T145746_C001		
and Backscatter Quality Set for one or more records  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T163233_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T163233_C001  CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T163233_C001  CS_OFFL_SIR_GOPM_2_20230104T163252_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163252_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163052_20230104T17507_C001  CS_OFFL_SIR_GOPM_2_20230104T164037_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T174522_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T1811348_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181348_C001  CCCAN Altimeter Range Quality, OCOG Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCAN Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCAN Altimeter Ra	CS_OFFL_SIR_GOPM_2_20230104T145952_20230104T151925_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20230104T163252_20230104T163646_C001  CS_OFFL_SIR_GOPM_2_20230104T163252_20230104T17507_C001  CS_OFFL_SIR_GOPM_2_20230104T164037_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T164037_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T1811348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T18152204_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T183510_C001  CS_OFFL_SIR_GOPM_2_20230104T183510_C001  CS_OFFL_SIR_GOPM_2_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T18348_C001  CS_OFFL_SIR_GOPM_2_20230104T183510_C001  CS_OFFL_SIR_GOPM_2_20230104T183510_C001  CS_OFFL_SIR_	CS_OFFL_SIR_GOPM_2_20230104T155121_20230104T162455_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20230104T164037_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T164037_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171507_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180418_C001  CS_OFFL_SIR_GOPM_2_20230104T180418_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range SSHA, SWH  CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range SSHA, SWH  CCCCG_Altimeter Range Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCCG_Altimeter Range SSHA, SWH  CCCCG_Altimeter Range Altimeter Range Altimete	CS_OFFL_SIR_GOPM_2_20230104T162813_20230104T163233_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T18133_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181350_C001  CS_OFFL_SIR_GOPM_2_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_202	CS_OFFL_SIR_GOPM_2_20230104T163252_20230104T163646_C001	0 3,	
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230104T164037_20230104T171507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T180432_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T182204_20230104T183510_C001  CS_OFFL_SIR_GOPM_2_20230104T183510_C001  CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20230104T171631_20230104T171918_C001		
CS_OFFL_SIR_GOPM_2_20230104T18143_20230104T180432_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20230104T173452_20230104T174212_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Backscatter Quality  for one or more records  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001  CS_OFFL_SIR_GOPM_2_20230104T18204_20230104T183510_C001  CS_OFFL_SIR_GOPM_2_20230104T182204_20230104T183510_C001  Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20230104T175143_20230104T180432_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Backscatter Quality  for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20230104T180616_20230104T181133_C001		
CS_OFFL_SIR_GOPM_2_20230104T182204_20230104T183510_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20230104T181152_20230104T181348_C001		
	CS_OFFL_SIR_GOPM_2_20230104T182204_20230104T183510_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

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CS_OFFL_SIR_GOPM_2_20230104T183724_20230104T184937_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_GOPM_2_20230104T185233_20230104T185329_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_GOPM_2_20230104T191649_20230104T192714_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_GOPM_2_20230104T192854_20230104T194318_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_GOPM_2_20230104T194542_20230104T195045_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_GOPM_2_20230104T195916_20230104T200015_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_GOPM_2_20230104T200644_20230104T201120_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_GOPM_2_20230104T201744_20230104T202103_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_GOPM_2_20230104T202226_20230104T202936_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_GOPM_2_20230104T210116_20230104T212246_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_GOPM_2_20230104T212601_20230104T213002_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_GOPM_2_20230104T213024_20230104T213231_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_GOPM_2_20230104T213619_20230104T220150_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_GOPM_2_20230104T220300_20230104T220455_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_GOPM_2_20230104T223656_20230104T230216_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_GOPM_2_20230104T230352_20230104T230917_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_GOPM_2_20230104T230924_20230104T231249_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_GOPM_2_20230104T231614_20230104T234844_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_GOPN_2_20230104T103035_20230104T103203_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_GOPN_2_20230104T114018_20230104T114141_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_GOPN_2_20230104T131900_20230104T132015_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_GOPN_2_20230104T141158_20230104T141237_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_GOPN_2_20230104T181348_20230104T181544_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_GOPN_2_20230104T191334_20230104T191649_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_GOPN_2_20230104T201125_20230104T201622_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 PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Number of products with errors:

86

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20230104T010736_20230104T010841_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	Description  The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230104T011143_20230104T011321_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_GOPN_2_20230104T011338_20230104T011712_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_GOPN_2_20230104T013327_20230104T013444_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_GOPN_2_20230104T014016_20230104T014333_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_GOPN_2_20230104T023433_20230104T023553_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_GOPN_2_20230104T023906_20230104T023932_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_GOPN_2_20230104T025044_20230104T025241_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_GOPN_2_20230104T045346_20230104T045621_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_GOPN_2_20230104T045818_20230104T050352_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_GOPN_2_20230104T064231_20230104T064408_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_GOPN_2_20230104T071110_20230104T071344_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_GOPN_2_20230104T072815_20230104T072922_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_GOPN_2_20230104T075036_20230104T075621_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_GOPN_2_20230104T080316_20230104T080552_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_GOPN_2_20230104T082134_20230104T082321_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_GOPN_2_20230104T085011_20230104T085215_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_GOPN_2_20230104T090731_20230104T091325_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_GOPN_2_20230104T095023_20230104T095210_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_GOPN_2_20230104T102804_20230104T102901_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_GOPN_2_20230104T103035_20230104T103203_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_GOPN_2_20230104T104059_20230104T104123_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_GOPN_2_20230104T104745_20230104T105149_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_GOPN_2_20230104T113235_20230104T113419_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_GOPN_2_20230104T131000_20230104T131329_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_GOPN_2_20230104T133821_20230104T133932_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_GOPN_2_20230104T135114_20230104T135203_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_GOPN_2_20230104T141158_20230104T141237_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_GOPN_2_20230104T145746_20230104T145910_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_GOPN_2_20230104T163646_20230104T163755_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_GOPN_2_20230104T181348_20230104T181544_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_GOPN_2_20230104T191334_20230104T191649_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_GOPN_2_20230104T200019_20230104T200121_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_GOPN_2_20230104T200358_20230104T200644_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_GOPN_2_20230104T201125_20230104T201622_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_GOPN_2_20230104T203307_20230104T203819_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_GOPN_2_20230104T213231_20230104T213516_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_GOPN_2_20230104T221059_20230104T221220_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_GOPN_2_20230104T223556_20230104T223656_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_GOPN_2_20230104T231249_20230104T231409_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_GOPN_2_20230104T234845_20230104T235336_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_GOPR_2_20230104T000456_20230104T000713_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_GOPR_2_20230104T010114_20230104T010311_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_GOPR_2_20230104T010418_20230104T010557_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_GOPR_2_20230104T021937_20230104T023003_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_GOPR_2_20230104T024118_20230104T024331_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_GOPR_2_20230104T035855_20230104T040028_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_GOPR_2_20230104T040200_20230104T040224_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_GOPR_2_20230104T040903_20230104T042351_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_GOPR_2_20230104T044648_20230104T045346_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_GOPR_2_20230104T053414_20230104T053600_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_GOPR_2_20230104T054331_20230104T054754_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_GOPR_2_20230104T061157_20230104T061335_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_GOPR_2_20230104T062744_20230104T063240_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_GOPR_2_20230104T072517_20230104T072814_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_GOPR_2_20230104T073138_20230104T073611_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_GOPR_2_20230104T083904_20230104T084709_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_GOPR_2_20230104T090054_20230104T090730_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_GOPR_2_20230104T103846_20230104T104059_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_GOPR_2_20230104T104124_20230104T104222_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_GOPR_2_20230104T104251_20230104T104745_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_GOPR_2_20230104T112737_20230104T112949_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_GOPR_2_20230104T121643_20230104T121849_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_GOPR_2_20230104T121958_20230104T122945_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_GOPR_2_20230104T134959_20230104T135023_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_GOPR_2_20230104T135336_20230104T135636_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_GOPR_2_20230104T135951_20230104T140837_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_GOPR_2_20230104T141039_20230104T141157_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_GOPR_2_20230104T141238_20230104T141317_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_GOPR_2_20230104T152743_20230104T152812_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_GOPR_2_20230104T152957_20230104T153310_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_GOPR_2_20230104T154120_20230104T154906_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_GOPR_2_20230104T171507_20230104T171526_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_GOPR_2_20230104T172027_20230104T172740_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_GOPR_2_20230104T181545_20230104T182203_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_GOPR_2_20230104T184937_20230104T185233_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_GOPR_2_20230104T185422_20230104T185724_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_GOPR_2_20230104T185942_20230104T190625_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_GOPR_2_20230104T200015_20230104T200019_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_GOPR_2_20230104T200121_20230104T200204_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_GOPR_2_20230104T203059_20230104T203306_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_GOPR_2_20230104T203820_20230104T204434_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_GOPR_2_20230104T204457_20230104T204530_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_GOPR_2_20230104T221643_20230104T221719_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_GOPR_2_20230104T221719_20230104T222542_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_GOPR_2_20230104T235337_20230105T000117_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.

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:

#### 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 GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors: 1

#### 6. GOP 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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that 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.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20230103T235956_20230104T004933_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_2_20230104T004933_20230104T013911_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T013911_20230104T022848_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T022848_20230104T031826_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T031826_20230104T040802_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 height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20230104T040802_20230104T045740_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T045740_20230104T054717_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T054717_20230104T063655_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T063655_20230104T072632_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230104T072632_20230104T081609_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20230104T081609_20230104T090546_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T090546_20230104T095524_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230104T095524_20230104T104501_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T104501_20230104T113439_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T113439_20230104T122416_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T122416_20230104T131354_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T131354_20230104T140331_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T140331_20230104T145308_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T145308_20230104T154245_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230104T154245_20230104T163223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T163223_20230104T172200_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T172200_20230104T181138_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T181138_20230104T190115_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230104T190115_20230104T195052_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230104T195052_20230104T204029_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 height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20230104T204029_20230104T213007_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T213007_20230104T221944_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T221944_20230104T230922_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230104T230922_20230104T235859_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230104T235859_20230105T004836_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

# 6.5 P2P Measurement Confidence Data 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.

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.

Number of products with errors:

#### 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 full list of products affected.

Number of products with errors: 3

#### 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 GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors:

#### P2P Retracking Flags PLRM

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

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

30

Number of products with errors:

## 7. GOP 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_GOPM1B	199	199	7	192	0
SIR_GOPR1B	118	118	0	118	0
SIR_GOPN1B	100	100	3	97	0
SIR_GOPM_2	199	199	148	51	0
SIR_GOPR_2	118	118	35	82	1
SIR_GOPN_2	100	100	40	60	0
SIR GOP P2P	29	29	0	28	1

#### 7.1 QCC Errors

Number of QCC reports with errors:

2

Total number	of occurrences of ea	ch error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	1	1	1	1							
			•								
Draduct Type	DI ODODNICOE										
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

Test 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

2270

Total number	of occurrences	of each	warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	192	0	0	0	0	0	0
SIR_GOPM_2	0	0	37	38	1	42	0
SIR_GOPN1B	95	0	0	0	0	0	0
SIR_GOPN_2	0	0	8	34	5	21	24
SIR_GOPR1B	112	0	0	0	0	0	0
SIR GOPR 2	0	1	39	47	3	32	31

Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNO	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	37	1	1	31	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	9	21	1	0	0	27	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	12	25	7	0	48	0	56

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	25	0	0	3	29	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	33	0	0	30	11	41	48
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	0	48	0	4	65	40

Product Ty	/pe	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_GOPM	11B	0	0	0	0	1	0	0
SIR_GOPM	1_2	6	34	0	0	1	0	0
SIR_GOPN	I1B	0	0	0	0	0	0	47
SIR_GOPN	I_2	29	25	28	13	0	0	0
SIR_GOPR	11B	0	0	0	0	0	0	118

SIR_GOPR_2	10	41	52	2	0	4	0
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	18	29	29	9	29	20	26
	*	,	*			,	

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	26	6	17	29	24	16	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR GOP 2	18	27	29	20	14	29	

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD 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_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				

# 7.3 Missing QCC Reports