

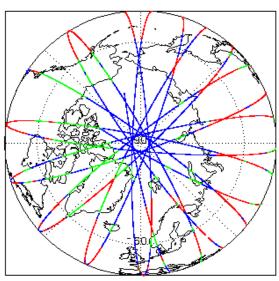
## 1. Overview

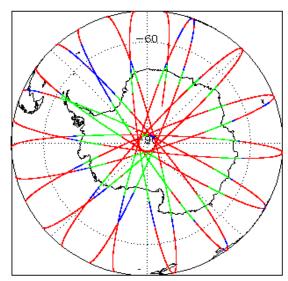
Report Production:	01-Apr-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

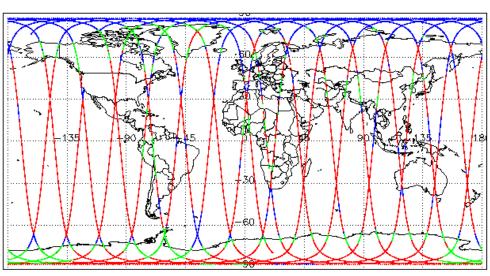
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission /	ument News	
01-Mar-2	None	
02-Mar-2	None	
03-Mar-2	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. 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 binary product file (.DBL).

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B 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

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:

0

#### 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.

Number of products with errors:

17

Test Failed	Description
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
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Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo

## 5. GOP Level 2 Data Quality Check

### 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > 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_20210302T062934_20210302T063414_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20210302T000156_20210302T000322_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_20210302T003424_20210302T003448_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_20210302T004417_20210302T004514_C001	Mean Sea 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_20210302T022322_20210302T022437_C001	Mean Sea 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_20210302T035838_20210302T040352_C001	Mean Sea 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_20210302T045637_20210302T050250_C001	Mean Sea 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_20210302T053841_20210302T054239_C001	Mean Sea 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_20210302T063414_20210302T063420_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20210302T063603_20210302T063920_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_20210302T071714_20210302T072102_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_20210302T085149_20210302T085756_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20210302T094626_20210302T094749_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_20210302T095606_20210302T095723_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_20210302T105549_20210302T105757_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_20210302T112609_20210302T112735_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_20210302T113259_20210302T113607_C001	Mean Sea 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_20210302T122909_20210302T123026_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_20210302T130551_20210302T130730_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_20210302T131158_20210302T131526_C001	Mean Sea 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_20210302T144636_20210302T144911_C001	Mean Sea 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_20210302T154144_20210302T154305_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and 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_20210302T162201_20210302T162800_C001	Mean Sea 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_20210302T163516_20210302T163654_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_20210302T172110_20210302T172322_C001	Mean Sea 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_20210302T180403_20210302T180549_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_20210302T181424_20210302T181620_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_20210302T190024_20210302T190514_C001	Mean Sea 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_20210302T203508_20210302T203531_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_20210302T212444_20210302T212707_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

CS_OFFL_SIR_GOPN_2_20210302T213302_20210302T213429_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_20210302T230302_20210302T230615_C001	Mean Sea 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_20210302T004515_20210302T005527_C001	Mean Sea 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_20210302T022438_20210302T023156_C001	Mean Sea 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_20210302T040352_20210302T040911_C001	Mean Sea 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_20210302T054240_20210302T054244_C001	Mean Sea 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_20210302T054244_20210302T054835_C001	Mean Sea 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_20210302T054838_20210302T054931_C001	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_20210302T072103_20210302T072928_C001	Mean Sea 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_20210302T085756_20210302T090656_C001	Mean Sea 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_20210302T103728_20210302T104350_C001	Mean Sea 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_20210302T104350_20210302T104702_C001	Mean Sea 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_20210302T105515_20210302T105548_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_20210302T121256_20210302T122249_C001	Mean Sea 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_20210302T122249_20210302T122422_C001	Mean Sea 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_20210302T135522_20210302T140148_C001	Mean Sea 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_20210302T140148_20210302T140314_C001	Mean Sea 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_20210302T153448_20210302T154035_C001	Mean Sea 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_20210302T154035_20210302T154143_C001	Mean Sea 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_20210302T171701_20210302T172109_C001	Mean Sea 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_20210302T185351_20210302T190023_C001	Mean Sea 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_20210302T203532_20210302T204049_C001	Mean Sea 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_20210302T220336_20210302T220539_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_20210302T221437_20210302T222234_C001	Mean Sea 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_20210302T235257_20210303T000205_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) 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:

0

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

100

Product	Test Failed	Description
CS OFFE SIR GOPM 2 202103011235644 202103021000156 C001	3	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20210302T000339_20210302T002333_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_20210302T005527_20210302T012920_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_20210302T013433_20210302T013644_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_20210302T013651_20210302T014104_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_20210302T014301_20210302T021154_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_20210302T021156_20210302T021921_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_20210302T023702_20210302T023735_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_20210302T023756_20210302T024619_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_20210302T025100_20210302T025228_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_20210302T025250_20210302T030155_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_20210302T030354_20210302T030849_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_20210302T031024_20210302T031544_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_20210302T031603_20210302T031810_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_20210302T032658_20210302T033920_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_20210302T034117_20210302T034949_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_20210302T035116_20210302T035320_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_20210302T035545_20210302T035759_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_20210302T041109_20210302T041112_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_20210302T041451_20210302T041647_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_20210302T042051_20210302T043021_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_20210302T043224_20210302T043943_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_20210302T044054_20210302T044752_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_20210302T044950_20210302T045446_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_20210302T050251_20210302T050535_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_20210302T052220_20210302T052902_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_20210302T061036_20210302T062710_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.

Segment Caulty  Does Allerted Rouge SIMA, 9991 Allerted Rouge SIMA, 99			
Big   Cont   2   2011/20/20/20/20/20/20   2011/20/20/20/20   2011/20/20/20/20/20/20/20/20/20/20/20/20/20/	CS_OFFL_SIR_GOPM_2_20210302T062934_20210302T063414_C001		
CBC   CBFF_SIR_GOMP_2_3201082T0930_3001302T0951S_GOD1	CS_OFFL_SIR_GOPM_2_20210302T064005_20210302T071507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description	CS_OFFL_SIR_GOPM_2_20210302T074011_20210302T080654_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Segment Caulty  Does Allerted Rouge SIMA, 9991 Allerted Rouge SIMA, 99	CS_OFFL_SIR_GOPM_2_20210302T080826_20210302T081315_C001		
CS_DEFL_SR_GOPM_2_20118007104498_20118007104498_C019  CR_DEFL_SR_GOPM_2_20118007104498_20118007104498_C019  CR_DEFL_SR_GOPM_2_20118007111988_20118007104498_C019  CR_DEFL_SR_GOPM_2_20118007111988_20118007104498_C019  CR_DEFL_SR_GOPM_2_20118007111988_20118007110498_C019  CR_DEFL_SR_GOPM_2_20118007112982_C01907110498_C019  CR_DEFL_SR_GOPM_2_20118007112982_C01907110498_C019  CR_DEFL_SR_GOPM_2_20118007112982_C01907112986_C019  CR_DEFL_SR_GOPM_2_20118007112982_C01907112986_C019  CR_DEFL_SR_GOPM_2_20118007112988_C0190710498	CS_OFFL_SIR_GOPM_2_20210302T081335_20210302T081700_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210302T192458_20210302T11255_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_20210302T11255_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T112545_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T125456_C0101  CS_OFFL_SIR_GOPM_2_20210302T12546_C0101  CS_OFFL_SIR_GOPM_2_20210302T12546_C0101  CS_OFFL_SIR_GOPM_2_20210302T12546_C0101  CS_OFFL_SIR_GOPM_2_20210302T12546_C0101  CS_OFFL_SIR_GOPM_2_20210302T	CS_OFFL_SIR_GOPM_2_20210302T081919_20210302T084658_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Cuality  Ce. OFFL_SIR_GOPM_2_20210322T091758_20210002T09259_COT  All Backscatter Cuality  Ce. OFFL_SIR_GOPM_2_2021032T091758_20210002T09259_COT  All Backscatter Cuality  Ce. OFFL_SIR_GOPM_2_2021032T091758_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091758_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091758_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091759_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091759_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091759_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091759_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091759_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_2021032T091759_20210002T09259_COT  Ce. OFFL_SIR_GOPM_2_20210302T091759_COT  Ce. OFFL_SIR_GOPM_2_20210302T091759_COT  Ce. OFFL_SIR_GOPM_2_20210302T091759_COT  Ce. OFFL_SIR_GOPM_2_20210302T111259_COT  Ce. OFFL_SIR_GOPM_2_20210302T11259_COT  Ce. OFFL_SIR_GOPM_2_20210302T1125	CS_OFFL_SIR_GOPM_2_20210302T084858_20210302T085149_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Sadocaster Quality, CODA Allmeter Range and Backscatter Causity Flags have been Allmeter Range and Backscatter Quality and The CODA Allmeter Range and Backscatter Quality (The Range and Backscatter Quality) and The Coda Allmeter Range and Backscatter Quality (The Range and Backscatter Quality) and The Coda Allmeter Range and Backscatter Quality (The Range and Backscatter Quality) and the Coda Allmeter Range and Backscatter Quality (The Coda Allmeter Range and Backscatter Quality) and the Coda Allmeter Range and Backscatter Quality (The Coda Allmeter Range and Backscatter Quality) (The Coda A	CS_OFFL_SIR_GOPM_2_20210302T091535_20210302T091756_C001		
and the OCOS Alternier Range and Backscatter Quality CS_OFFL_SIR_GOPPM_2_202100027104749_002100027109520_C001  CS_OFFL_SIR_GOPPM_2_202100027104749_002100027109520_C001  CS_OFFL_SIR_GOPPM_2_202100027103553_00210002710355_0001  CS_OFFL_SIR_GOPPM_2_202100027111008_00210002710355_0001  CS_OFFL_SIR_GOPPM_2_202100027111008_00210002711204_0001  CS_OFFL_SIR_GOPPM_2_202100027111008_00210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711204_0001  CS_OFFL_SIR_GOPPM_2_20210002711205_0001  CS_OFFL_SIR_GOPPM_2_20210002711205_0001002711205_0001  CS_OFFL_SIR_GOPPM_2_20210002711205_0001002711205_0001  CS_OFFL_SIR_GOPPM_2_20	CS_OFFL_SIR_GOPM_2_20210302T091758_20210302T092450_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sackscatter Quality  CG_OFFL_SIR_GOPM_2_20210302T195838_20210302T13332_001  CG_OFFL_SIR_GOPM_2_20210302T191808_20210302T112042_C001  CG_OFFL_SIR_GOPM_2_20210302T112042_20210302T112042_C001  CG_OFFL_SIR_GOPM_2_20210302T112042_20210302T112042_C001  CG_OFFL_SIR_GOPM_2_20210302T112042_20210302T112042_C001  CG_OFFL_SIR_GOPM_2_20210302T112042_20210302T112050_C001  CG_OFFL_SIR_GOPM_2_20210302T112042_20210302T112080_C001  CG_OFFL_SIR_GOPM_2_20210302T112032_20210302T112080_C001  CG_OFFL_SIR_GOPM_2_20210302T112032_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12032_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12032_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12032_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T12253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T1253_20210302T122080_C001  CG_OFFL_SIR_GOPM_2_20210302T1253_20210302T123080_C001  CG_OFFL_SIR_GOPM_2_20210302T1253_20210302T123080_C001  CG_OFFL_SIR_GOPM_2_20210302T1253_20210302T123080_C001  CG_OFFL_SIR_GOPM_2_20210302T1253_20210302T123080_C001  CG_OFFL_SIR_GOPM_2_20210302T13073_0.20210302T13049_C001  CG_OFFL_SIR_GOPM_2_20210302T13073_0.20210302T13049_C001  CG_OFFL_SIR_GOPM_2_20210302T13020_20210302T13049_C001  CG_OFFL_SIR_GOPM	CS_OFFL_SIR_GOPM_2_20210302T092454_20210302T094620_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been affaction of the COGA Allmeter Range and Backscatter Quality Flags and the COGA Allmeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T113257_C001  CS_OFFL_SIR_GOPM_2_20210302T113330_20210302T12106_C001  CS_OFFL_SIR_GOPM_2_20210302T113330_20210302T121266_C001  CS_OFFL_SIR_GOPM_2_20210302T123352_20210302T121266_C001  CS_OFFL_SIR_GOPM_2_20210302T123531_20210302T121266_C001  CS_OFFL_SIR_GOPM_2_20210302T125531_20210302T121266_C001  CS_OFFL_SIR_GOPM_2_20210302T125531_20210302T124967_C001  CS_OFFL_SIR_GOPM_2_20210302T125531_20210302T124967_C001  CS_OFFL_SIR_GOPM_2_20210302T125545_20210302T124967_C001  CS_OFFL_SIR_GOPM_2_20210302T125545_20210302T124967_C001  CS_OFFL_SIR_GOPM_2_20210302T125545_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T125545_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T13049_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_2021	CS_OFFL_SIR_GOPM_2_20210302T094749_20210302T095230_C001		
CS_OFFL_SIR_GOPM_2_20210302T112042_20210302T112042_0001  CS_OFFL_SIR_GOPM_2_20210302T112242_20210302T11250_0001  CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T11250_0001  CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T11250_0001  CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T11200_0001  CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T120106_0001  CS_OFFL_SIR_GOPM_2_20210302T120302_000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20210302T095838_20210302T103352_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set one or more records.  CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T112557_C001  CS_OFFL_SIR_GOPM_2_20210302T113830_20210302T120108_C001  CS_OFFL_SIR_GOPM_2_20210302T13830_20210302T121266_C001  CS_OFFL_SIR_GOPM_2_20210302T120352_20210302T12256_C001  CS_OFFL_SIR_GOPM_2_20210302T120352_20210302T12256_C001  CS_OFFL_SIR_GOPM_2_20210302T122531_20210302T122580_C001  CS_OFFL_SIR_GOPM_2_20210302T122531_20210302T122508_C001  CS_OFFL_SIR_GOPM_2_20210302T1254508_20210302T124957_C001  CS_OFFL_SIR_GOPM_2_20210302T1254508_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T1254508_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T12545_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL_SIR_GOPM_2_20210302T130742_20210302T130750_C001  CS_OFFL	CS_OFFL_SIR_GOPM_2_20210302T111808_20210302T112042_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210302T13330_20210302T120106_C001  CS_OFFL_SIR_GOPM_2_20210302T12352_20210302T121256_C001  CS_OFFL_SIR_GOPM_2_20210302T120352_20210302T121256_C001  CS_OFFL_SIR_GOPM_2_20210302T120352_20210302T12256_C001  CS_OFFL_SIR_GOPM_2_20210302T122531_20210302T12258_C001  CS_OFFL_SIR_GOPM_2_20210302T122531_20210302T122598_C001  CS_OFFL_SIR_GOPM_2_20210302T122531_20210302T12298_C001  CS_OFFL_SIR_GOPM_2_20210302T12551_20210302T124957_C001  CS_OFFL_SIR_GOPM_2_20210302T124508_20210302T124957_C001  CS_OFFL_SIR_GOPM_2_20210302T124508_20210302T124957_C001  CS_OFFL_SIR_GOPM_2_20210302T125145_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T125145_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130459_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T131157_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130242_0210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130242_0210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130242_0210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130242_0210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130242_0210302T130518_C001  CS_OFFL_SIR_GOPM_2_20210302T130242_0210302T135018_C001	CS_OFFL_SIR_GOPM_2_20210302T112242_20210302T112550_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, COCG SoffL_SIR_GOPM_2_20210302T120352_20210302T121256_CO01  Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have been attempted and the OCCG Altimeter Range and Backscatter Quality Flags have b	CS_OFFL_SIR_GOPM_2_20210302T112735_20210302T113257_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been attempted and the OCOG Altimeter Range and Backscatter Quality Plags have been attempted and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Plags have been attempted and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Plags have been attempted by Plags have been attempted by Plags have been attempted b	CS_OFFL_SIR_GOPM_2_20210302T113830_20210302T120106_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the CCOG Altimeter Range and Backscatter Quality Flags and the CCOG Altimeter Range and Backscatter Quality Flags and the CCOG Altimeter Range and Backscatter Quality Flags and the CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T131157_C001  CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001  CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001  CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001  CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T13024_20_2010302T13249_C001  CS_OFFL_SIR_GOPM_2_20210302T13024_20_2010302T132949_C001  CS_OFFL_SIR_GOPM_2_20210302T13024_20_2010302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T13002T13002T130018_C001  CS_OFFL_SIR_GOPM_2_20210302T13002T13002T130018_C001  CS_OFFL_SIR_GOPM_2_20210302T13002T130018_C001  CS_OFFL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20210302T120352_20210302T121256_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The 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 have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quali	CS_OFFL_SIR_GOPM_2_20210302T122531_20210302T122908_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG	CS_OFFL_SIR_GOPM_2_20210302T124508_20210302T124957_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001  CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001  CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T132949_C001  CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T132949_C001  CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T132949_C001  CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T13002T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001  CS_OFFL_SIR_GOPM_2_20210302T141017_20210	CS_OFFL_SIR_GOPM_2_20210302T125145_20210302T130459_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T132949_C001  CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T132949_C001  CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T13024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001  CS_OFFL_SIR_GOPM_2_20210	CS_OFFL_SIR_GOPM_2_20210302T130730_20210302T131157_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001  CS_OFFL_SIR_GOPM_2_20210302T14101	CS_OFFL_SIR_GOPM_2_20210302T131742_20210302T132410_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001  CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20210302T132420_20210302T132949_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20210302T133024_20210302T135018_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20210302T141017_20210302T141507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality Set for one or more records.	CS_OFFL_SIR_GOPM_2_20210302T141638_20210302T143936_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20210302T144256_20210302T144311_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_20210302T145739_20210302T150421_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_20210302T151359_20210302T151527_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_20210302T152007_20210302T152717_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_20210302T153119_20210302T153126_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_20210302T153351_20210302T153429_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_20210302T154305_20210302T154623_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_20210302T154839_20210302T155206_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_20210302T155213_20210302T155425_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_20210302T155551_20210302T160407_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_20210302T160621_20210302T162127_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_20210302T163054_20210302T163515_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_20210302T163654_20210302T164400_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_20210302T164520_20210302T165156_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_20210302T165336_20210302T170741_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_20210302T172835_20210302T172911_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_20210302T173507_20210302T173736_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_20210302T173858_20210302T174202_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_20210302T174720_20210302T180317_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_20210302T180550_20210302T181423_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_20210302T181639_20210302T183925_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_20210302T191634_20210302T194237_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_20210302T194748_20210302T195228_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_20210302T195508_20210302T195906_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_20210302T200051_20210302T202153_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_20210302T205411_20210302T212150_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.

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CS_OFFL_SIR_GOPM_2_20210302T212707_20210302T213301_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_20210302T213429_20210302T215350_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_20210302T215625_20210302T220335_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_20210302T222538_20210302T230026_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_20210302T230615_20210302T231133_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_20210302T231313_20210302T231613_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_20210302T231812_20210302T231949_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_20210302T234909_20210302T235143_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_20210302T002333_20210302T002650_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_20210302T062719_20210302T062934_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_20210302T081329_20210302T081335_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_20210302T103556_20210302T103728_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_20210302T154144_20210302T154305_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_20210302T163516_20210302T163654_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_20210302T180403_20210302T180549_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_20210302T232343_20210302T232347_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_GOPR_2_20210302T054948_20210302T054951_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_GOPR_2_20210302T143936_20210302T144256_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_GOPR_2_20210302T150421_20210302T150453_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_GOPR_2_20210302T153041_20210302T153051_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_GOPR_2_20210302T172322_20210302T172455_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS OFFE SIR GOPN 2 202103021002333 202103021002650 C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	, , ,	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPN_2_20210302T022002_20210302T022152_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_20210302T022322_20210302T022437_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_20210302T035838_20210302T040352_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_20210302T041647_20210302T042050_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_20210302T045637_20210302T050250_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_20210302T051238_20210302T051415_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_20210302T051446_20210302T052048_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_20210302T053346_20210302T053508_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_20210302T053739_20210302T053753_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_20210302T053841_20210302T054239_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_20210302T063603_20210302T063920_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_20210302T071714_20210302T072102_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_20210302T073640_20210302T074010_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_20210302T081700_20210302T081815_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_20210302T085149_20210302T085756_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_20210302T103352_20210302T103519_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_20210302T105549_20210302T105757_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_20210302T111137_20210302T111243_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_20210302T113259_20210302T113607_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_20210302T122909_20210302T123026_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_20210302T124146_20210302T124508_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_20210302T130551_20210302T130730_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_20210302T144636_20210302T144911_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_20210302T145104_20210302T145417_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_20210302T145530_20210302T145731_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_20210302T154144_20210302T154305_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_20210302T162201_20210302T162800_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_20210302T163516_20210302T163654_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_20210302T172455_20210302T172715_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_20210302T172912_20210302T173027_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_20210302T174348_20210302T174720_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_20210302T184106_20210302T184429_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_20210302T184515_20210302T184631_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_20210302T190024_20210302T190514_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_20210302T194339_20210302T194500_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_20210302T202459_20210302T202605_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_20210302T203508_20210302T203531_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_20210302T212444_20210302T212707_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_20210302T213302_20210302T213429_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_20210302T222235_20210302T222347_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_20210302T231134_20210302T231249_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_20210302T233035_20210302T233120_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_20210302T004141_20210302T004417_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_20210302T004515_20210302T005527_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_20210302T022438_20210302T023156_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_20210302T023348_20210302T023702_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_20210302T023735_20210302T023756_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_20210302T034949_20210302T035116_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_20210302T040352_20210302T040911_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_20210302T040936_20210302T041109_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_20210302T050536_20210302T050848_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_20210302T053753_20210302T053841_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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CS_OFFL_SIR_GOPR_2_20210302T054244_20210302T054835_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_20210302T060512_20210302T060534_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_20210302T060537_20210302T060827_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_20210302T060830_20210302T061036_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_20210302T072103_20210302T072928_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_20210302T085756_20210302T090656_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_20210302T090729_20210302T090951_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_20210302T095724_20210302T095838_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_20210302T103728_20210302T104350_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_20210302T104905_20210302T105004_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_20210302T113607_20210302T113830_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_20210302T121256_20210302T122249_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_20210302T123026_20210302T123225_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_20210302T124958_20210302T125145_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_20210302T135105_20210302T135306_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_20210302T135522_20210302T140148_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_20210302T140324_20210302T140725_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_20210302T144311_20210302T144635_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_20210302T152916_20210302T152934_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_20210302T153011_20210302T153029_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_20210302T154035_20210302T154143_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_20210302T160408_20210302T160621_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_20210302T171524_20210302T171608_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_20210302T171701_20210302T172109_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_20210302T172322_20210302T172455_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_20210302T172715_20210302T172835_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_20210302T183925_20210302T184106_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_20210302T184717_20210302T184731_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_20210302T185303_20210302T185351_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_20210302T185351_20210302T190023_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_20210302T190602_20210302T190755_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_20210302T203119_20210302T203232_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_20210302T203532_20210302T204049_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_20210302T220859_20210302T221057_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_20210302T221248_20210302T221412_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_20210302T221437_20210302T222234_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_20210302T230026_20210302T230302_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_20210302T231250_20210302T231313_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_20210302T234617_20210302T234741_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_20210302T235257_20210303T000205_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

## 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 59

#### L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 14

## 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:

0

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

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

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

29

Number of products with errors:

**Test Failed** Product Description Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210301T235716\_20210302T004652\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T004652\_20210302T013630\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T013630 20210302T022606 C001 Topography height (solution 1) for one or more record Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20210302T022606\_20210302T031545\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T031545 20210302T040521 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T040521\_20210302T045459\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20210302T045459 20210302T054436 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20210302T054436\_20210302T063414\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20210302T063414 20210302T072350 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20210302T072350\_20210302T081329\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height CS OFFL SIR GOP 2 20210302T081329 20210302T090305 C001 Tide (FES), Non-Equilibrium Long Period (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20210302T090305\_20210302T095244\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T095244\_20210302T104220\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T104220 20210302T113158 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T113158\_20210302T122134\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20210302T122134 20210302T131113 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20210302T131113\_20210302T140049\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T140049\_20210302T145027\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T145027 20210302T154003 C001 Topography (1) Topography height (solution 1) for one or more record Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide CS\_OFFL\_SIR\_GOP\_2\_20210302T154003\_20210302T162942\_C001 Topography (1), Total Geocentric Ocean Tide (GOT) neight (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T162942 20210302T171918 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T171918\_20210302T180857\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20210302T180857\_20210302T185833\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T185833 20210302T194812 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20210302T194812 20210302T203748 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1) Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), the Total Geocentric Ocean Tide height CS\_OFFL\_SIR\_GOP\_2\_20210302T203748\_20210302T212726\_C001 Tide (GOT), Total Geocentric Ocean (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Tide (FES). Non-Equilibrium Long Perio for one or more records Ocean Tide Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20210302T212726 20210302T221702 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20210302T221702\_20210302T230641\_C001 Topography height (solution 1) for one or more records Topography (1)

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

(

#### 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20Hz)

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

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

Number of products with errors: 2

#### P2P Quality Flags (20Hz PLRM)

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

Number of products with errors:

#### P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 3

## 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 2

### P2P Retracking Flags PLRM

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

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

lumber 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	212	212	4	208	0
SIR_GOPR1B	154	154	0	154	0
SIR_GOPN1B	108	108	1	107	0
SIR_GOPM_2	212	212	151	61	0
SIR_GOPR_2	154	154	62	89	3
SIR_GOPN_2	108	108	41	67	0
SIR_GOP_P2P	29	29	0	25	4

### 7.1 QCC Errors

Number of QCC reports with errors:

Product Type RLOBOPNCDF

Total number of occurrences of each error

SIR_GOPR_2	3	1	3	3	1	3					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

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

### 7.2 QCC Warnings

Number of QCC reports with warnings

2118

Total numb	er of occurrences	of each	warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	208	0	0	0	0	0	0
SIR_GOPM_2	0	0	42	40	0	49	0
SIR_GOPN1B	105	0	0	0	0	0	0
SIR_GOPN_2	0	0	10	33	3	26	24
SIR_GOPR1B	149	0	0	0	0	0	0
SIR_GOPR_2	0	3	17	32	1	27	21

Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	41	2	0	37	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	19	30	0	0	0	23	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	13	36	3	0	35	0	45

Product Type F	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF

SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	30	0	0	8	33	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	36	0	0	27	16	43	54
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	0	33	0	4	59	33

	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD
ſ	SIR_GOPM1B	0	0	0	0	0	0	0
	SIR_GOPM_2	2	38	0	3	0	0	0
	SIR_GOPN1B	0	0	0	0	0	0	0
	SIR_GOPN_2	32	32	29	12	0	0	4
	SIR_GOPR1B	0	0	0	0	1	1	0
	SIR GOPR 2	11	25	34	0	0	0	8

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	14	28	29	3	29	19	29

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	28	4	18	28	24	18	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR GOP 2	20	27	29	19	12	29	

BCSHNCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF BurstCounterStep20HzNetCDF IndexOfTHzinzQhtzMappingOutOfRange The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 The value should not be a "missing value" for surface type 0 only for latitudes between - MVIOEPNCDF MissingValueIntOceanExcludingPolarNetCDF The value should not be a "missing value" for surface type 0 only for latitudes between - MVIOEPNCDF MIssingValueIntOceanExcludingPolarPDzNetCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRM RCDF RBSZOPOEPFDLRM RCDF RBSZOPOEPFDLRM RAngeBackscatterSigmaZeroOPOceanExcludingPolarFDzPLRMNetCDF RBSZOPOEPFDLRM RAngeBackscatterSigmaZeroOPOceanExcludingPolarFDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngeBackscatterSigmaZeroOPOceanExcludingPolarPDzPLRMNetCDF RAngePeakinessExcludingPolarOPEDzPLRMNetCDF RAngePeakinessExcludingPol	Test Description Key:								
IndexOf1Hzin20HzMappingOutOfRange									
MVIOEPFDNCDF MissingValueIntOceanExcludingPolarFD2NetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between - MVIONOPF MissingValueIntOceanExcludingPolarNetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between - MVIONOPF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDPLRM RNCDF RBSZOPOEPFDPLRM RANGEBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF RBSZOPOEPFDPLRM RANGEBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF RBSZOPOEPFDNCDF RANGEBackscatterSigmaZeroOPOceanExcludingPolarPD2PLRMNetCDF RBSZOPOEPFDPLRM RANGEBackscatterSigmaZeroOPOceanExcludingPolarPolarPD2PLRMNetCDF RBSZOPOEPFDPLRM RANGEBackscatterSigmaZeroOPOceanExcludingPolarPolarPolarNetCDF RANGEBackscatter sigma zero should be between 700 and 7500 (or missing) for surface type between -700 and 70 degrees  RLPTONCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF RANGEBackscatter sigma zero should be between 700 and 7500 (or missing) for surface type between -700 and 70 degrees  The Long period tide height should be between -50mm and 50mm (or missing) for surface type between -700 and 70 degrees  The Long period tide height should be between -50mm and 50mm (or missing) for surface type surface type = ocean for and 70 degrees  The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for and 70 degrees  RANGEPOPEDPLRMSINN CDF RPEPOPFDPLRMSINN CDF RPEPOPFDSARNCDF RANGEPASHNESSExcludingPolarOPFD2PLRMSINNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for and 70 degrees  RAngePeakinessExcludingPolarOPFD2SARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for and 70 degrees  RAngePeakinessExcludingPolarOPFD2SARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for and 70 degrees  The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for and 70 degrees  The Peakiness should be between 0 and 640									
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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 same	mple								
SCSTODHRNCDF SequenceCounterStepTODHRNetCDF The sequence counter should be modulo 4 higher with regard to the previous sequence	e counter								
SCSTODNCDF SequenceCounterStepTODNetCDF The sequence counter should be one higher (modulo 16384) with regard to the previous	is sequence counter								

# 7.3 Missing QCC Reports