

## **QA4EO Daily Report for GOP data:**

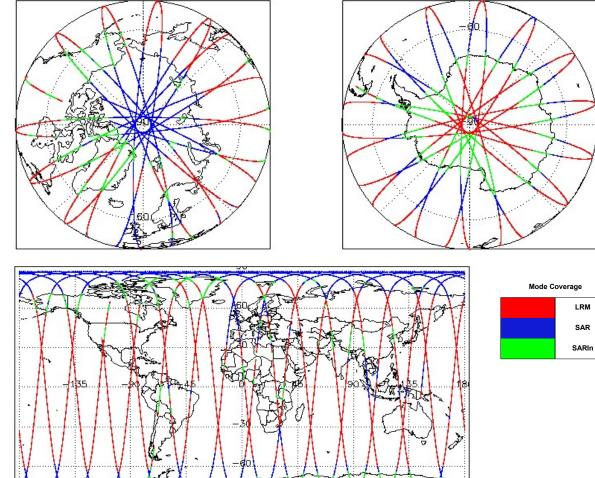
<u>28/08/2022</u>

## IDEAS-QAHEO

Report Production:	29-Sep-2022	Check	L1 & L2	P2P
Report Froduction.	29-3ep-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used: Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal	
	L1B, L2 & P2P Science Data	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 and 5.5	See Section 6.5
		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, 7.2 and 7.3	See Section 7.1, 7.2 and 7.3

м	Mission / Instrument News		
	27-Aug-2022	None	
	28-Aug-2022	None	
		Nothing planned	





## 3. Instrument Configuration

SIRAL instrument(s) in use:

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

SIRAL - A

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4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

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Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220828T150432_20220828T150502_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220828T194120_20220828T194650_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220828T005009_20220828T010505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220828T013843_20220828T015441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220828T093700_20220828T101229_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220828T110902_20220828T111429_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220828T115954_20220828T120421_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220828T165306_20220828T165339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220828T195854_20220828T200050_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T004835_20220828T005009_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T051732_20220828T052728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T065507_20220828T070245_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T083420_20220828T084050_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T101229_20220828T101950_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T115424_20220828T115843_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220828T133635_20220828T133855_C001	Loss of Echo	The tracking echo is missing for one or more records

## 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 NetCDF product file (.nc). Number of products with errors: 0

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220828T013843_20220828T015441_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPM_2_20220828T033437_20220828T033520_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPM_2_20220828T134325_20220828T140118_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220828T002040_20220828T002135_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_20220828T011448_20220828T011704_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_20220828T015441_20220828T015741_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220828T015837_20220828T020050_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220828T024504_20220828T024656_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_20220828T025343_20220828T025827_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_20220828T033520_20220828T033915_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_20220828T042510_20220828T042741_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_20220828T043459_20220828T043649_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_20220828T060353_20220828T060525_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_20220828T074411_20220828T074524_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_20220828T092324_20220828T092448_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_20220828T092958_20220828T093306_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220828T110411_20220828T110657_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_20220828T110902_20220828T111429_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_20220828T115954_20220828T120421_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_20220828T124337_20220828T124613_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_20220828T133855_20220828T134006_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_20220828T141520_20220828T141716_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220828T142056_20220828T142425_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_20220828T151815_20220828T152041_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_20220828T160102_20220828T160252_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_20220828T161108_20220828T161330_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_20220828T184021_20220828T184458_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_20220828T192037_20220828T192414_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_20220828T192951_20220828T193105_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_20220828T205959_20220828T210318_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

	Maan See Surfeee (4) Maan Duna	There is an error with the MCC height (activities 4) and the Mars D
CS_OFFL_SIR_GOPN_2_20220828T215045_20220828T215156_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_20220828T224736_20220828T224844_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_20220828T232959_20220828T233111_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_20220828T002135_20220828T002717_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_20220828T002730_20220828T002851_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_20220828T020050_20220828T020247_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_20220828T020247_20220828T020747_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_20220828T033915_20220828T034434_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20220828T051732_20220828T052728_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_20220828T065507_20220828T070245_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_20220828T071205_20220828T071236_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_20220828T071250_20220828T071401_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_20220828T083420_20220828T084050_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_20220828T084050_20220828T084214_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_20220828T084610_20220828T084937_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_20220828T101229_20220828T101950_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_20220828T101950_20220828T102205_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_20220828T115424_20220828T115843_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_20220828T115843_20220828T115954_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_20220828T133211_20220828T133635_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_20220828T133635_20220828T133855_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_20220828T144939_20220828T145257_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_20220828T151158_20220828T151815_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_20220828T165340_20220828T165815_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_20220828T183211_20220828T184021_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

### 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.

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220828T150432_20220828T150502_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220828T194120_20220828T194650_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20 Hz)

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

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

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

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220827T234446_20220828T001512_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_20220828T001650_20220828T001959_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_20220828T002851_20220828T003407_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_20220828T003444_20220828T004810_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_20220828T005009_20220828T010505_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_20220828T010741_20220828T011244_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_20220828T012210_20220828T013224_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_20220828T013843_20220828T015441_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_20220828T022548_20220828T022831_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_20220828T023010_20220828T024337_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_20220828T024656_20220828T025156_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_20220828T025959_20220828T033433_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_20220828T034618_20220828T035302_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_20220828T040139_20220828T042213_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_20220828T042741_20220828T043114_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_20220828T043136_20220828T043459_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_20220828T043829_20220828T050634_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_20220828T053810_20220828T060200_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_20220828T060525_20220828T061029_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_20220828T061806_20220828T065136_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_20220828T070332_20220828T071045_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_20220828T072754_20220828T073325_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_20220828T073714_20220828T074126_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_20220828T074525_20220828T075102_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_20220828T075843_20220828T083102_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_20220828T083153_20220828T083230_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_20220828T083301_20220828T083420_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_20220828T084312_20220828T084500_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_20220828T090333_20220828T091921_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_20220828T092449_20220828T092958_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_20220828T093700_20220828T101229_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_20220828T102205_20220828T102418_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_20220828T103433_20220828T103855_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_20220828T103950_20220828T105727_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_20220828T111647_20220828T113201_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_20220828T113316_20220828T113729_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_20220828T113801_20220828T115235_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_20220828T120421_20220828T122310_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_20220828T122539_20220828T123758_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_20220828T124927_20220828T125314_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_20220828T125541_20220828T131033_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_20220828T131234_20220828T132157_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_20220828T134325_20220828T140118_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_20220828T141716_20220828T141841_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_20220828T142425_20220828T143217_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_20220828T143518_20220828T144939_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_20220828T152738_20220828T155915_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_20220828T160252_20220828T160504_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_20220828T160523_20220828T161108_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_20220828T161529_20220828T163914_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_20220828T171036_20220828T173813_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_20220828T174215_20220828T174328_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_20220828T174503_20220828T174929_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_20220828T175420_20220828T181935_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_20220828T182514_20220828T183211_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_20220828T184458_20220828T191548_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_20220828T192414_20220828T192950_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_20220828T193328_20220828T193735_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_20220828T194120_20220828T194650_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_20220828T200847_20220828T201105_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_20220828T202336_20220828T205613_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_20220828T210318_20220828T210831_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_20220828T211406_20220828T213015_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_20220828T214809_20220828T214916_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_20220828T215955_20220828T222409_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_20220828T222448_20220828T223501_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_20220828T224335_20220828T224736_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_20220828T225240_20220828T231828_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_20220828T231844_20220828T232619_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_20220828T233823_20220828T235255_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_20220828T235916_20220829T001051_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_20220828T043459_20220828T043649_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_20220828T115351_20220828T115424_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_20220828T160504_20220828T160523_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_20220828T205959_20220828T210318_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_20220828T101229_20220828T101950_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_20220828T143404_20220828T143517_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_20220828T201134_20220828T201921_C001	and Backscatter Quality, OCOG Altimeter	The Ocean Altimeter Range, SSHA, SWH 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_20220828T215156_20220828T215954_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_20220828T223501_20220828T223712_C001	and Backscatter Quality, OCOG Altimeter	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220828T001512_20220828T001650_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_20220828T011448_20220828T011704_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_20220828T013224_20220828T013330_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_20220828T015441_20220828T015741_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_20220828T024504_20220828T024656_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_20220828T025343_20220828T025827_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_20220828T033520_20220828T033915_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_20220828T040000_20220828T040010_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_20220828T042510_20220828T042741_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_20220828T043459_20220828T043649_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_20220828T060353_20220828T060525_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_20220828T072420_20220828T072615_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_20220828T072709_20220828T072754_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_20220828T075102_20220828T075220_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_20220828T084214_20220828T084236_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_20220828T084249_20220828T084308_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_20220828T092324_20220828T092448_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_20220828T092958_20220828T093306_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_20220828T110902_20220828T111429_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_20220828T115954_20220828T120421_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_20220828T125314_20220828T125455_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_20220828T133855_20220828T134006_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_20220828T140118_20220828T140721_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_20220828T143217_20220828T143404_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_20220828T145901_20220828T150255_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_20220828T152614_20220828T152738_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_20220828T160102_20220828T160252_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_20220828T163914_20220828T164257_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_20220828T170320_20220828T170442_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_20220828T174329_20220828T174503_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_20220828T184021_20220828T184458_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_20220828T192037_20220828T192414_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_20220828T192951_20220828T193105_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_20220828T195854_20220828T200050_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_20220828T200139_20220828T200154_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_20220828T202150_20220828T202336_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_20220828T210831_20220828T210956_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_20220828T224736_20220828T224844_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_20220828T232634_20220828T232749_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_20220828T232959_20220828T233111_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_20220828T002135_20220828T002717_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_20220828T010505_20220828T010559_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_20220828T011705_20220828T012210_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_20220828T013630_20220828T013843_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_20220828T020247_20220828T020747_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_20220828T033915_20220828T034434_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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Cold States Structure         COCO Electerizer Gary         Recent States           Cold Field Structure         Cold Electerizer Gary         Recent States           Cold Field Structure         Cold Electer Gary         Recent States           Cold Field Structure         Cold Ele	CS_OFFL_SIR_GOPR_2_20220828T034509_20220828T034618_C001		
Control         Control         Control         Control         Control           CS, OHE, SHE CONTE, 2.8220081701307, 20220821701307, 20	CS_OFFL_SIR_GOPR_2_20220828T040055_20220828T040139_C001		
GB, DRL, DRL, DORG, 2. 20228281766127, 20238281701246, COLI     Dear Alterative Range Coling Vield     The Owner Alterative Range Coling Vield       CI, ORL, DR, DORG, 2. 20228281706127, 20238281707124, COLI     Dear Alterative Range Coling Vield     The Owner Alterative Range Coling Vield       CI, ORL, DR, DORG, 2. 20228281707123, 20238281707124, COLI     Dear Alterative Range Coling Vield     The Owner Alterative Range Coling Vield       CI, ORL, DR, DORG, 2. 20228281707124, 20238281707124, COLI     Dear Alterative Range Coling Vield     The Owner Alterative Range Coling Vield       CI, ORL, DR, DORG, 2. 20228281707128, 20238281707124, COLI     Dear Alterative Range Coling Vield     The Owner Alterative Range Coling Vield       CI, ORL, DR, DORG, 2. 20228281707128, 20238281707145, 20238281707144, COLI     Dear Alterative Range Coling Vield	CS_OFFL_SIR_GOPR_2_20220828T051732_20220828T052728_C001		
Q1 0FL SFL00FL2 2020/001/03/SL020/2020/17/3/SL020     Image: Second Control Second Contro Second Control Second Control Second Control Second Con	CS_OFFL_SIR_GOPR_2_20220828T061537_20220828T061806_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Cold, Diff, Link, GORE, 2. 2020/08/11/01/02.000         Cold Restance Casing         The Occas Advances Face, SSA, With and Bascaster Casing Process Advances Face, SSA,	CS_OFFL_SIR_GOPR_2_20220828T065507_20220828T070245_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OPE_SELCOPE_2.022003017074178_020028017074178_CODE     Image Descenter Quilty FLAM. CODE       CB_OPE_SELCOPE_2.02200301707478_02002801707462_CODE     CODEN Ammer Ramp. SSAN, SWI       CB_OPE_SELCOPE_2.02200301707462_02028001707462_CODE     CODEN Ammer Ramp. SSAN, SWI       CB_OPE_SELCOPE_2.02200301707478_000000     CODEN Ammer Ramp. SSAN, SWI       CB_OPE_SELCOPE_2.02200301707478_000000     CODEN Ammer Ramp. SSAN, SWI       CB_OPE_SELCOPE_2.02200301707478_000000     CODEN Ammer Ramp. SSAN, SWI       CB_OPE_SELCOPE_2.02200301707478_000000000000000000000000000000000	CS_OFFL_SIR_GOPR_2_20220828T073325_20220828T073714_C001		
CB, OPR, SR, CORP, 2. 2022082107540.0020       Imit Basication Config. PLAN, COCA, Minister Regin, SSH, SWH, Minister Regin, SSH, SWH, Minister Regin, SSH, SWH, Minister Regin, SSH, SWH, COCA, Minister Regin, SSH, SWH, LINK, COCA, Minister Regin, SSH, SWH, AND, Minister Regin, SSH, SWH, LINK, COCA, Minister Regin, SSH, SWH, Minister Regin, SSH, SWH, Minister Regin, SSH, SWH, Mini Ministeratin Countyly Flags have been self or	CS_OFFL_SIR_GOPR_2_20220828T074126_20220828T074411_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C3_OFFL_BIL_GOPR_2_20220808T1081202_20220808T1081204_Q000_Q001       pmd Babasatter Quarty PLMA COORD         Pmd Babasatter Quarty PLMA COORD       pmd Babasatter Quarty PLMA COORD         Pmd Babasatter Quarty PLMA COORD       pmd Babasatter Quarty PLMA COORD         Pmd Babasatter Quarty PLMA COORD       pmd Babasatter Quarty PLMA COORD         Pmd Babasatter Quarty PLMA COORD       pmd Babasatter Quarty PLMA COORD         Pmd Babasatter Quarty PLMA COORD       pmd Babasatter Quarty PLMA COORD         C3_OFFL_BIL_GOPR_2_20220808T108124_LODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA COORD         C3_OFFL_BIL_GOPR_2_20220808T108124_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T109121_20220808T109224_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T109121_20220808T109224_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T109121_20220808T109204_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T109121_20220808T109204_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T109120_20220808T10920_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T10920_20220808T10920_CODI       CCGG Allineter Parge CMB Backsatter Quarty PLMA CODIE         C3_OFFL_BIL_GOPR_2_20220808T10920_20220828T10920_CODI	CS_OFFL_SIR_GOPR_2_20220828T075420_20220828T075843_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C3_OFFL_SR_GOPR_2_2022082811094214_0001 whether Barge and Backcatter Quality Flags have been set for one or more records. C5_OFFL_SR_GOPR_2_202208281109214_202208281109234_0001 COCG Almeter Range CALL AND A COCG Alme	CS_OFFL_SIR_GOPR_2_20220828T083420_20220828T084050_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Open L, SH, GOPR, J. 202208281109150, 202208281109224, 2001         DOCOR Balackaster Rungh, SSHA, SVH         Immer records           CS, OFFL, SR, GOPR, J. 202208281109120, 202208281109224, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281109120, 202208281109220, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281109220, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281101220, 200208281109200, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281101220, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 20220828110200, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 20220828110203, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281102419, 20220828110243, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281102419, 202208281102430, 2001         Doen Altimoter Rungh, SSHA, SVH         The Ocean Altimoter Rungh, SSHA, SVH           CS, OFFL, SR, GOPR, J. 202208281108430, 2001         Doen Altimoter Rungh, SSHA, SVH	CS_OFFL_SIR_GOPR_2_20220828T084050_20220828T084214_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CG_OFFL_SIR_GOPR_2_20220221101921_0220221101920_0001       and Backscatter Ousling PLRM. COOL PLRM.       The Ousen Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_20220221101220_20220221101920_0001       Common Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been and backscatter Ousling PLRM. COOL Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been and backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_20220221101220_20220821101920_0001       Common Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have boold altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_202208231101220_202208231101920_0001       Common Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_202208231102120_20208231102133_0001       Cocon Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_202208231102133_0001       Cocon Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_202208231110213_0001       Cocon Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_202208231110213_0001       Cocon Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or more records.         CS_OFFL_SIR_GOPR_2_202208231110243_0001       Cocon Altimeter Range, SSHA, SWH and Backscatter Ousling Plags have been set for our or	CS_OFFL_SIR_GOPR_2_20220828T085150_20220828T085153_C001		
CS_OFIL_SIR_GOPR_2_20220828110329_0220828109500_0001       and Backscatter Quality PERM, QCOG Allmeter Range and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags have been after one or more records.           CS_OFIL_SIR_GOPR_2_20220828110229_20220828110540_0001         Cean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags and the OCOG Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean Allmeter Range, SHA, SWH and Backscatter Quality Flags. The Ocean	CS_OFFL_SIR_GOPR_2_20220828T091921_20220828T092324_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C6_OFFL_SIR_GOPR_2_20220828T101220_2022828T101950_C001       and Backsatter Quality PLRM, CCCO Attimuter Range, SSHA, SWH and Backsatter Quality PLRM, CCO Attimuter Range, SSHA, SWH and Backsatter Quality PLRM, CCCO Attimuter Range, SSHA, SWH and Backsatter Quality Flags and CCCO Attimuter Range, SSHA, SWH and Backsatter Quality PLRM, CCCO Backsatter Quality PLRM, CCG, OFFL_SIR_GOPR_2_20220828T105472_20220828T110410_C001       DCCCA Attimuter Range, SSHA, SWH and Backsatter Quality Flags and CCCO Backsatter Quality Flags and CCCO Backsatter Quality Flags and CCCO Backsatter Quality Flags and Backsatter Quality Flags and Backsatter Quality Flags and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags and the CCCO Attimeter Range, SSHA,	CS_OFFL_SIR_GOPR_2_20220828T093306_20220828T093700_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220828T101950_20220828T102205_C001       and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T102418_20220828T102405_C001       COCGA Itimeter Range and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T102418_20220828T110410_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T105727_20220828T110410_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T110429_20220828T11047_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T111429_20220828T111647_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115235_20220828T115330_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115245_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115243_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115243_C001       COCGA Itimeter Range. SSHA, SWH and Backscatter Quality FLags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115245_C001       CO	CS_OFFL_SIR_GOPR_2_20220828T101229_20220828T101950_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_GOPR_2_B02202828110216         OCCG         Backscatter Quality         more records           CS_OFFL_SIR_GOPR_2_202208281105727_202208281110410_C001         Ocean Altimeter Range, SNH, SWH pLRM         The Ocean Altimeter Range, SNH, SWH and the OCCG Altimeter Range, SNH, SWH and Backscatter Quality FIRM, OCCG Altimeter Range and Backscatter Quality FIRM, OCCG Altimeter Range, SNH, SWH and Backscatter Quality FIRM, OCCGG Altimeter Range, SNH, SWH and Backscatter Quality FIRM,	CS_OFFL_SIR_GOPR_2_20220828T101950_20220828T102205_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220828T105727_20220828T110410_C001       and Backscatter Quality PLRM, QCGG       Iffee Docod Altimeter Range, and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T111429_20220828T111647_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115235_20220828T115330_C001       COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115424_20220828T115433_C001       COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115424_20220828T115843_C001       COCG Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115643_20020828T115954_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T112541_20020828T112554_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T122310_20220828T122351_C001       COCG Altimeter Range Quality PLRM, OCG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T122310_20220828T122351_C001       COCG Altimeter Range Quality PLRM, OCG Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T123230_2020828T12337_C001	CS_OFFL_SIR_GOPR_2_20220828T102418_20220828T103433_C001		
CS_OFFL_SIR_GOPR_2_20220828T111429_20220828T111467_C001       and Backscatter Quality PLRM, CCCG Altimeter Range and Backscatter Quality PLRM       ine OCGA Nitmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115235_20220828T115330_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality       The OCGG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T115243_20220828T115843_C001       OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags and the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags and the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T122351_C001       OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T123255_20220828T124337_C001       OCCG Altimeter Range SSHA, SWH and Backsca	CS_OFFL_SIR_GOPR_2_20220828T105727_20220828T110410_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_202208281115235_202208281115843_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPR_2_202208281115424_202208281115843_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags 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_202208281115843_202208281115954_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281122310_202208281122351_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281122310_202208281122351_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281122355_202208281122351_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281123758_202208281122417_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281133211_202208281133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_202208281133635_C001       O	CS_OFFL_SIR_GOPR_2_20220828T111429_20220828T111647_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220828T115424_20220828T115843_C001       All meter Range and Backscatter Quality PLRM, OCCG         CS_OFFL_SIR_GOPR_2_20220828T115843_20220828T115954_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCCG         CS_OFFL_SIR_GOPR_2_20220828T115843_20220828T115954_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCCG         CS_OFFL_SIR_GOPR_2_20220828T122310_20220828T1122351_C001       OCCG Altimeter Range Quality PLRM, OCCG       The OCCG Altimeter Range and Backscatter Quality FLRM, OCCG         CS_OFFL_SIR_GOPR_2_20220828T122310_20220828T122351_C001       OCCG Altimeter Range Quality PLRM, OCCG       The OCCG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T122417_C001       OCCG Altimeter Range Quality PLRM, OCCG       The OCCG Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T122437_C001       OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T1233758_20220828T124337_C001       OCCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133211_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         <	CS_OFFL_SIR_GOPR_2_20220828T115235_20220828T115330_C001		
CS_OFFL_SIR_GOPR_2_2020828T115843_20220828T115954_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG PLRM       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T122310_20220828T122351_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T123758_20220828T124337_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_2021       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backs	CS_OFFL_SIR_GOPR_2_20220828T115424_20220828T115843_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T122417_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T122417_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T123758_20220828T124337_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133211_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133855_C001       Ocean Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133855_C001       Ocean Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPR_2_20220828T115843_20220828T115954_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T124337_C001       OCOG Backscatter Quality       more records         CS_OFFL_SIR_GOPR_2_20220828T123758_20220828T124337_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_GOPR_2_20220828T133211_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_200208       The Ocean Altimeter Range, SSHA, SWH and Backsca	CS_OFFL_SIR_GOPR_2_20220828T122310_20220828T122351_C001		
CS_OFFL_SIR_GOPR_2_20220828T123758_20220828T124337_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range Backscatter Rug	CS_OFFL_SIR_GOPR_2_20220828T122355_20220828T122417_C001		
CS_OFFL_SIR_GOPR_2_20220828T133211_20220828T133635_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM       Inde OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133635_20220828T133855_C001       Description       Description         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133855_C001       Description       Description       Description         CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133855_C001       Description       Description       Description	CS_OFFL_SIR_GOPR_2_20220828T123758_20220828T124337_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133855_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been as to cone or more records	CS_OFFL_SIR_GOPR_2_20220828T133211_20220828T133635_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20220828T133635_20220828T133855_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPR_2_20220828T151158_20220828T151815_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_20220828T155915_20220828T160102_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_20220828T165340_20220828T165815_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_20220828T175216_20220828T175420_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_20220828T183211_20220828T184021_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_20220828T191549_20220828T192037_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_20220828T200437_20220828T200750_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_20220828T201134_20220828T201921_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_20220828T202058_20220828T202150_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_20220828T205613_20220828T205959_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_20220828T210956_20220828T211406_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_20220828T214038_20220828T214339_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_20220828T223501_20220828T223712_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records					
L2 Quality Flags (1 Hz & 1 Hz PLRM)							
Currently, there are several common flags raised in the Level 2 products, v	which are summarised below.						
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for	products over sea ice, which is to be expected.						
Number of products with errors: 178							
5.8 L2 Ocean Retracking Quality Check							
L2 Retracking Flags (20 Hz) CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measu	rement record. The bit value of this flag indicat	es any problems when set.					
Ocean Retracking Quality Flag: This flag is currently set for products over land							
Number of products with errors: 59							
L2 Retracking Flags (20 Hz PLRM)							
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM	measurement record. The bit value of this flag	indicates any problems when set.					
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.							
Number of products with errors: 139							
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 er	nsure it consists of both an XML header file (.H	DR) and a NetCDF product file (.nc).					
Number of products with errors: 0	· · · · · · · · · · · · · · · · · · ·						

## 6.2 P2P Product Header Analysis

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

Number of products with errors:

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

0

0

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

28

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220827T233347_20220828T002322_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T002322_20220828T011301_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T025216_20220828T034152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220828T034152_20220828T043131_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T043131_20220828T052107_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T052107_20220828T061046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T061046_20220828T070021_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T070021_20220828T075000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T075000_20220828T083936_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T083936_20220828T092915_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T092915_20220828T101851_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220828T101851_20220828T110830_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T110830_20220828T115805_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T115805_20220828T124744_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T124744_20220828T133720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T133720_20220828T142659_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220220828T142659_20220828T151635_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T151635_20220828T160614_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T160614_20220828T165549_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T165549_20220828T174529_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T174529_20220828T183504_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T183504_20220828T192443_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T192443_20220828T201419_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T201419_20220828T210358_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220828T210358_20220828T215334_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T215334_20220828T224313_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_220220828T224313	_20220828T233248_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220828T233248	_20220829T002227_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
6.5 P2P Measurement Confide	nce Data Check		
CryoSat P2P data includes a measurement c	onfidence flag for each 20 Hz me	easurement record. The bit value of this flag in	idicates any problems when set.
Number of products with errors:	2		
Product		Test Failed	Description
CS_OFFL_SIR_GOP_220220828T142659	_20220828T151635_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220828T192443	_20220828T201419_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
6.6 P2P Measurement Quality	Flag Check		
P2P Quality Flags (20 Hz)			
CryoSat P2P data includes Quality Flags for	each 20 Hz, 20 Hz PLRM and 1 H	z measurement record, copied from the corre	esponding L2 products.
Since the P2P Quality Flags are copied dire	ectly from the L2 Quality Flags,	please see Section 5.6 for the full list of pr	roducts affected.
Number of products with errors:	28		
P2P Quality Flags (20 Hz PLRM)			
Since the P2P Quality Flags are copied dire	ectly from the L2 Quality Flags,	please see Section 5.6 for the full list of pr	roducts affected.
Number of products with errors:	28		
P2P Quality Flags (1 Hz & 1 Hz Pl	LRM)		
Since the P2P Quality Flags are copied dire	ectly from the L2 Quality Flags,	please see Section 5.6 for the full list of pr	roducts affected.
Number of products with errors:	28		
6.8 P2P Ocean Retracking Qua	ality Check		
<b>P2P Retracking Flags (20 Hz)</b> Cryosat P2P data includes an ocean retracking	ng quality flag (field 19) for each 2	20 Hz measurement record. The bit value of th	nis flag indicates any problems when set.
-		s GOPR and GOPN products over sea ice, bu	
Number of products with errors:	26		
P2P Retracking Flags PLRM			
CryoSat L2 data includes an ocean retracking	g quality flag for each 20 Hz PLR	M measurement record. The bit value of this fl	ag indicates any problems when set.
Ocean Retracking Quality Flag (PLRM): Th	is flag is currently set for products	s GOPR and GOPN products over sea ice, bu	t this is to be expected.
Number of products with errors:	28		

# 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.

No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
149	147	4	143	0
103	102	0	102	0
104	104	3	101	0
149	147	103	44	0
103	102	31	69	2
104	104	40	64	0
27	26	0	24	2
	149 103 104 149 103 104	149         147           103         102           104         104           149         147           103         102           104         104           103         102           104         104	149         147         4           103         102         0           104         104         3           149         147         103           103         102         31           104         104         40	149         147         4         143           103         102         0         102           104         104         3         101           149         147         103         44           103         102         31         69           104         104         40         64

### 7.1 QCC Errors

Number of QCC	reports with er	rors:	4								
					Total number	r of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	- 1
SIR_GOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	2	2	2	2							
Test Descriptio	n Kev:										

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

## 7.2 QCC Warnings

Number of QCC reports with warnings

2071

	Total number of occurrences of each warning								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD		
SIR_GOPM1B	143	0	0	0	0	0	0		
SIR_GOPM_2	0	0	34	35	3	34	0		
SIR_GOPN1B	99	0	0	0	0	0	0		
SIR_GOPN_2	0	0	13	32	4	26	33		
SIR_GOPR1B	99	0	0	0	0	0	0		
SIR_GOPR_2	0	2	39	37	0	39	35		

Broduct Turne	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF		RPEPOPFDPLRMSINNCD	PREDOREDSARNODE	RPEPOPFDSINNCDF	
SIR GOPM1B	0	0	0	0	0	0	0	
SIR_GOPM_2	30	0	32	0	0	0	0	
SIR_GOPN1B		0	0	0	0	0	0	
SIR_GOPN_2	22 0	2	0	0	23 0	0	33 0	
SIR_GOPR1B SIR GOPR 2	25	6	0	45	0	52	0	
		-	-		-	-	-	
Product Type		RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	
SIR_GOPM1B	0	0	0	0	0	0	0	
SIR_GOPM_2 SIR GOPN1B	26 0	0	0	5	25 0	0	5	
SIR_GOPN_2	0	0	28	16	40	49	30	
SIR_GOPR1B		0	0	0	0	0	0	
SIR_GOPR_2	0	42	0	2	64	47	9	
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	
SIR_GOPM1B	0	0	0	0	0	0	0	
SIR_GOPM_2	29	0	2	0	0	0	0	
SIR_GOPN1B SIR_GOPN_2	0 24	0 27	0	0	0	45 0	0	
SIR GOPR1B		0	0	0	0	102	1	
SIR_GOPR_2	37	46	1	0	3	0	0	
SIR GOP 2		MVIOEPFDNCDF 26	MVIOEPNCDF 26	MVIONCDF 3	RBSZOPOEPFDNCDF 26	RBSZOPOEPFDPLRMNCE	26	
011_001_2_	19	20	20	3	20	14	20	
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	
SIR_GOP_2_	4	14	26	22	15	26	16	
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	
SIR_GOP_2_		26	17	15	26			
Test Description Key: Abbreviation	Test name			Details				
BCSHNCDF	BurstCounterStep20HzNetC	DF			one higher with regard to the	previous burst counter		
					о о			
IOHHMOOR	IndexOf1Hzin20HzMappingC	DutOfRange		The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExclud	lingPolarFD2NetCDF		The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExclud	lingPolarNetCDF		The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
10/101005				-				
MVIONCDF	MissingValueIntOceanNetCD	)F			e value should not be a 'missing value' for surface type 0 only e backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZer	oOPOceanExcludingPolarFD	2NetCDF	The backscatter sigma zero between -70 and 70 degrees		7500 (or missing) for surface t	ype = ocean for latitudes	
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZer	oOPOceanExcludingPolarFD	2PLRMNetCDF			7500 (or missing) for surface t	ype = ocean for latitudes	
NCDF		-		between -70 and 70 degrees The backscatter sigma zero		7500 (or missing) for surface t	vpe = ocean for latitudes	
RBSZOPOEPNCDF	RangeBackscatterSigmaZer	oOPOceanExcludingPolarNe	tCDF	between -70 and 70 degrees	3			
RNELPOTONCDF	RangeNELPOceanTideOcea	anNetCDF		The Non-equilibrium long pe surface type = ocean	riod ocean loading tide height	should be between -40mm a	nd 40mm (or missing) for	
RPEPOPFDLRMNCDF	RangePeakinessExcludingPo	plarOPED2LRMNetCDE		The Peakiness should be be	tween 0 and 6400 (or missing	) for surface type = ocean for	latitudes between -70 and	
RPEPOPFDPLRMSAR				70 degrees	tween 0 and 15000 (or missin	ng) for surface type = ocean fo	v latitudes between 70 and	
NCDF	RangePeakinessExcludingPo	olarOPFD2PLRMSARNetCD	F	70 degrees	tween o and 10000 (or missi	ig) for surface type = ocean ic	i latitudes between -10 and	
RPEPOPFDPLRMSINN	RangePeakinessExcludingPo	olarOPFD2PLRMSINNetCDF	:	The Peakiness should be be 70 degrees	tween 0 and 90000 (or missir	ng) for surface type = ocean fo	or latitudes between -70 and	
CDF RPEPOPFDSARNCDF	RangePeakinessExcludingPo			° .	tween 0 and 15000 (or missir	ng) for surface type = ocean fo	or latitudes between -70 and	
NFEPOPEDSAKNUDF				70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPo	olarOPFD2SINNetCDF		The Peakiness should be be 70 degrees	ween u and 90000 (or missir	ng) for surface type = ocean fo	or latitudes between -70 and	
RPEPOPLRMNCDF	RangePeakinessExcludingPo	olarOPLRMNetCDF		The Peakiness should be be	tween 0 and 6400 (or missing	) for surface type = ocean for	latitudes between -70 and	
				70 degrees The Peakiness should be be	tween 0 and 15000 (or missir	ng) for surface type = ocean fo	or latitudes between -70 and	
RPEPOPSARNCDF	RangePeakinessExcludingPo	UIAI OPSARNEICDF		70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPo	olarOPSINNetCDF		The Peakiness should be be 70 degrees	tween 0 and 90000 (or missir	ng) for surface type = ocean fo	or latitudes between -70 and	
RSSBCONCDF	RangeSeaStateBiasCorrection	onOceanNetCDF		The sea state bias correction	n should be between -500mm	and 0mm (or missing) for sur	face type = ocean	
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnd	omalyOceanFD3NetCDF		The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocear				
RSSHAOFDPLRMNCD								
F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF			The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF			Ŭ	•	mm and 3000mm (or missing		
RSWHOEPFDNCDF	RangeSignificantWaveHeigh	tOceanExcludingPolarFD2Ne	etCDF	The significant wave height s latitudes between -70 and 70		15000mm (or missing) for sur	face type = ocean for	
RSWHOEPFDPLRMNC	RangeSignificantWaveHeigh	tOceanExcludingPolarFD2PL	RMNetCDF	The significant wave height s	should be between 0mm and	15000mm (or missing) for sur	face type = ocean for	
DF RSWHOEPNCDF		tOceanExcludingPolarNetCD			should be between 0mm and	15000mm (or missing) for sur	face type = ocean for	
		-		latitudes between -70 and 70	-			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node			Rel_Time_ASC_Node_Stop	mismatch			
SOOHHIFHD	SameOrOneHigher1HzIndex	For20HzData		The 1 Hz index of a 20 Hz sa	ample should be the same or	1 higher than its previous sam	ple	
SCSTODHRNCDF	SequenceCounterStepTODH	RNetCDF		The sequence counter shoul	d be modulo 4 higher with reg	ard to the previous sequence	counter	

7.3 Missing QCC Reports

Number of products with missing QCC reports:

7

L1B and L2 Product name n/a

P2P Product name CS\_OFFL\_SIR\_GOP\_2\_20220828T233248\_20220829T002227\_C002