

### 1. Overview

Report Production:	05-Dec-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

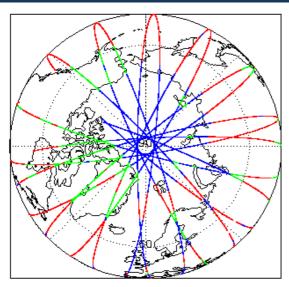
#### We would love to hear from you!

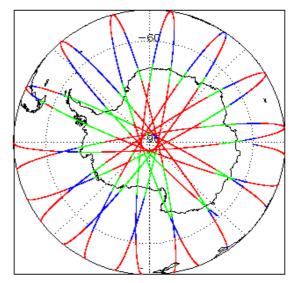
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

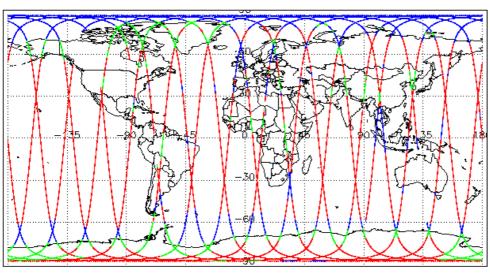
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.2	See Section 7.2 and 7.3

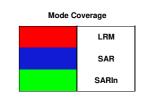
Mission / Ins	Mission / Instrument News	
02-Nov-2022	None	
03-Nov-2022	None	
04-Nov-2022	Nothing planned	

# 2. Global Coverage









### 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors

0

### 4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

0

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

23

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221102T235237_20221103T000249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221103T101153_20221103T102849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221103T230915_20221103T231136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T033006_20221103T033037_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T073633_20221103T074151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T082732_20221103T083146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T100922_20221103T101153_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T114549_20221103T114810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T162626_20221103T162829_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T163543_20221103T163632_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T164901_20221103T165043_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T195728_20221103T195846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T213217_20221103T213612_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221103T213629_20221103T213759_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:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221102T235237_20221103T000249_C001	Mean Sea 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_20221103T000249_20221103T000653_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_20221103T010211_20221103T010412_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_20221103T055052_20221103T055218_C001	Mean Sea 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_20221103T055729_20221103T060033_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_20221103T073116_20221103T073415_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_20221103T073633_20221103T074151_C001	Mean Sea 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_20221103T082732_20221103T083146_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_20221103T091110_20221103T091345_C001	Mean Sea 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_20221103T100626_20221103T100739_C001	Mean Sea 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_20221103T100922_20221103T101153_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_GOPN_2_20221103T104612_20221103T105209_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_20221103T114549_20221103T114810_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_20221103T122827_20221103T123018_C001	Mean Sea 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_20221103T132529_20221103T133007_C001	Mean Sea 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_20221103T140807_20221103T140945_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_20221103T154758_20221103T155144_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_20221103T172733_20221103T173050_C001	Mean Sea 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_20221103T181829_20221103T181917_C001	Mean Sea 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_20221103T191512_20221103T191619_C001	Mean Sea 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_20221103T195728_20221103T195846_C001	Mean Sea 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_20221103T213217_20221103T213612_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_20221103T213629_20221103T213759_C001	Mean Sea 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_20221103T223044_20221103T223658_C001	Mean Sea 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_20221103T231242_20221103T231650_C001	Mean Sea 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_20221103T000653_20221103T001215_C001	Mean Sea 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_20221103T014517_20221103T015523_C001	Mean Sea 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_20221103T032231_20221103T033006_C001	Mean Sea 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_20221103T050131_20221103T050824_C001	Mean Sea 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_20221103T050824_20221103T051033_C001	Mean Sea 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_20221103T064008_20221103T064724_C001	Mean Sea 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_20221103T064724_20221103T064933_C001	Mean Sea 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_20221103T082155_20221103T082620_C001	Mean Sea 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_20221103T082620_20221103T082732_C001	Mean Sea 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_20221103T095956_20221103T100450_C001	Mean Sea 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_20221103T100450_20221103T100626_C001	Mean Sea 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_20221103T113939_20221103T114549_C001	Mean Sea 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_20221103T131643_20221103T131652_C001	Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20221103T131652_20221103T131931_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_20221103T132113_20221103T132529_C001	Mean Sea 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_20221103T145924_20221103T150613_C001	Mean Sea 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_20221103T163910_20221103T164658_C001	Mean Sea 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_20221103T181054_20221103T181540_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_20221103T181917_20221103T182730_C001	Mean Sea 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_20221103T195846_20221103T200609_C001	Mean Sea 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_20221103T213759_20221103T214319_C001	Mean Sea 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_20221103T231650_20221103T232141_C001	Mean Sea 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_20221103T232141_20221103T232348_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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### 5.6 L2 Measurement Quality Flag Check

### L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

89

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221102T235237_20221103T000249_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_20221103T002115_20221103T002121_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_20221103T002842_20221103T004932_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_20221103T005506_20221103T005846_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_20221103T010609_20221103T013350_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_20221103T020509_20221103T022915_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_20221103T023249_20221103T023801_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_20221103T023808_20221103T024136_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_20221103T024535_20221103T031837_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_20221103T033117_20221103T033340_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_20221103T040440_20221103T040824_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_20221103T041250_20221103T041835_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_20221103T042619_20221103T045817_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_20221103T051033_20221103T051222_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_20221103T052943_20221103T054647_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_20221103T055218_20221103T055729_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_20221103T060435_20221103T062545_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_20221103T062631_20221103T063830_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_20221103T064933_20221103T065153_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_20221103T070732_20221103T072620_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_20221103T074405_20221103T081745_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_20221103T083159_20221103T085116_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_20221103T085302_20221103T090451_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_20221103T091716_20221103T092045_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_20221103T094009_20221103T094931_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_20221103T095455_20221103T095533_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_20221103T100739_20221103T100922_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_20221103T101153_20221103T102849_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_20221103T104511_20221103T104612_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_20221103T105209_20221103T105506_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_20221103T105514_20221103T105947_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_20221103T110259_20221103T111637_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_20221103T115117_20221103T115344_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_20221103T120340_20221103T120437_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_20221103T120440_20221103T122633_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_20221103T123018_20221103T123847_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_20221103T124229_20221103T130657_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_20221103T133813_20221103T140542_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_20221103T141232_20221103T141648_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_20221103T142159_20221103T144741_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_20221103T144744_20221103T144959_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_20221103T145650_20221103T145924_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_20221103T151304_20221103T154322_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_20221103T155144_20221103T155729_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_20221103T163632_20221103T163822_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_20221103T165043_20221103T172327_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_20221103T173050_20221103T173602_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_20221103T174135_20221103T175727_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_20221103T181540_20221103T181711_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_20221103T182730_20221103T185801_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_20221103T185812_20221103T190243_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_20221103T191057_20221103T191512_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_20221103T192031_20221103T194440_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_20221103T194610_20221103T195311_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_20221103T200802_20221103T201152_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_20221103T201244_20221103T202121_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_20221103T202734_20221103T203434_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_20221103T203608_20221103T204159_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_20221103T204429_20221103T204950_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_20221103T210101_20221103T211326_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_20221103T211506_20221103T212356_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_20221103T212522_20221103T213217_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_20221103T214515_20221103T214519_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_20221103T215434_20221103T220427_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_20221103T220629_20221103T221340_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_20221103T221502_20221103T222047_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_20221103T222355_20221103T222850_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_20221103T222926_20221103T223044_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_20221103T223725_20221103T224047_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_20221103T224720_20221103T224812_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_20221103T225454_20221103T225906_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_20221103T225908_20221103T230346_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_20221103T230439_20221103T230752_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_20221103T230915_20221103T231136_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_20221103T234509_20221103T235930_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_20221103T000249_20221103T000653_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_20221103T005902_20221103T005908_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_20221103T091110_20221103T091345_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_20221103T120218_20221103T120340_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_20221103T132048_20221103T132113_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_20221103T141648_20221103T141940_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

### L2 Quality Flags (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.

Number of products with errors:

88

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20221103T000249_20221103T000653_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_20221103T010211_20221103T010412_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_20221103T015533_20221103T015648_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_20221103T023801_20221103T023808_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_20221103T024136_20221103T024302_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20221103T033006_20221103T033037_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221103T045817_20221103T050131_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_20221103T051222_20221103T051313_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_20221103T055052_20221103T055218_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_20221103T073633_20221103T074151_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_20221103T082732_20221103T083146_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_20221103T094931_20221103T095305_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_20221103T100922_20221103T101153_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_20221103T102849_20221103T103329_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_20221103T104612_20221103T105209_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_20221103T114549_20221103T114810_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_20221103T114840_20221103T115028_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_20221103T115344_20221103T115507_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_20221103T122827_20221103T123018_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_20221103T131508_20221103T131630_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_20221103T131931_20221103T131950_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_20221103T132529_20221103T133007_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_20221103T133052_20221103T133214_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_20221103T133607_20221103T133813_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_20221103T141108_20221103T141232_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_20221103T154758_20221103T155144_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_20221103T161421_20221103T161755_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_20221103T161812_20221103T161951_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_20221103T162626_20221103T162829_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_20221103T164901_20221103T165043_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_20221103T172733_20221103T173050_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

CQ_CPT_SR_QCPVL_SRZ1107119679_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119679_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SR_QCPVL_SRZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZZ1107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZ21107119680_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZ2110712968_C061  CQ_CPT_SR_QCPVL_SRZ1107119680_XZ2110712968_C061  CQ_CPT_SR_QCPVL_SRZ110712968_XZ2110712968_C061  CQ_CPT_SR	CS_OFFL_SIR_GOPN_2_20221103T173602_20221103T173725_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 Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Column	CS_OFFL_SIR_GOPN_2_20221103T175727_20221103T180029_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
DOGG Allmore Farge Cashy F.P.M., DOGG Sassacians Cashy  Co. CPFL, SIR, DOPNL2_0029103T198194_0001  COGG Allmore Farge Cashy F.P.M., DOGG Sassacians Cashy  Cogg	CS_OFFL_SIR_GOPN_2_20221103T180757_20221103T180809_C001		
CR. (OPPL_SIR_DOPPL_2_20021137119439_2002113719802_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_2002113719802_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_2002113719802_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_2002113719802_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_2002113719802_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_2002113719392_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_20021137193932_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_20021137193932_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_20021137193932_COOL  CR. (OPPL_SIR_DOPPL_2_20021137194319_20021137193932_COOL  CR. (OPPL_SIR_DOPPL_2_20021137193393_COOL	CS_OFFL_SIR_GOPN_2_20221103T181829_20221103T181917_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_CFIL_SRI_GOPN_2_20221107191512 120221107191512 120221107191512 100211107191	CS_OFFL_SIR_GOPN_2_20221103T190449_20221103T190850_C001	OCOG Altimeter Range Quality PLRM,	
CS_OFFL_SR_GOPN_2_2022110071950410_202211007195062_C0001  CS_OFFL_SR_GOPN_2_202211007195069_202211007195062_C0001  CS_OFFL_SR_GOPN_2_202211007195069_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_202211007195069_C0001  CS_OFFL_SR_GOPN_2_20221100719507_C0001  CS_OFFL_SR_G	CS_OFFL_SIR_GOPN_2_20221103T191512_20221103T191619_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129392_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129392_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129392_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T128049_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T129393_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T103446_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T103466_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T103556_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T103556_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T103556_0000  CS_OFFL_SIR_GOPN_2_20221100T10348_20221100T103556_0000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T103566_0000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T103566_0000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T103566_0000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T103566_0000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T104816_00000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T104866_00000  CS_OFFL_SIR_GOPN_2_20221100T104817_20221100T104866_0000000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20221103T195410_20221103T195622_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPPL_2_20221103T219562_20221103T219590_2001  COCOR Milmoter Rango Goalby PLNM, OCOR Bask-coater Quality Flags have been set for one or nove months.  CS_OFFL_SIR_GOPPL_2_20221103T219564_20221103T2195434_2001  CS_OFFL_SIR_GOPPL_2_20221103T219564_20221103T225434_2001  CS_OFFL_SIR_GOPPL_2_20221103T229564_20221103T225059_2001  CS_OFFL_SIR_GOPPL_2_20221103T22954_20221103T229569_2001  CS_OFFL_SIR_GOPPL_2_20221103T229564_20221103T229569_2001  CS_OFFL_SIR_GOPPL_2_20221103T220562_20021103T220569_2001  CS_OFFL_SIR_GOPPL_2_20221103T220562_20021103T220569_2001  CS_OFFL_SIR_GOPPL_2_20221103T200562_20021103T220569_2001  CS_OFFL_SIR_GOPPL_2_20221103T200562_20021103T200562_2001  CS_OFFL_SIR_GOPPL_2_20221103T200562_20021103T200562_2001  CS_OFFL_SIR_GOPPL_2_20221103T200562_20021103T200562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T200562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T200562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T200562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T301542_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00562_2001  CS_OFFL_SIR_GOPPL_2_20221103T00562_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_20221103T00660_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_20221103T00660_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_20221103T00660_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_20221103T00660_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_20221103T00660_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_20221103T00660_20021103T00660_2001  CS_OFFL_SIR_GOPPL_2_202221103T00660_20021103T00660_2001  CS_	CS_OFFL_SIR_GOPN_2_20221103T205219_20221103T205403_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20221103T21954_20221103T21954_C001  Ocean Aftereior Range, SSIA_SWING Aftereior Range SSIA_SWING Aftereior Range and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T21954_20221103T22954_C001  Ocean Aftereior Range SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T22921_20221103T22955_C001  Ocean Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T229214_20221103T22955_C001  Ocean Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T22934_20221103T22955_C001  Ocean Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T22934_20221103T22955_C001  Ocean Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T23144_20221103T22955_C001  Ocean Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T201942_20221103T201946_C001  OCEAN Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T101142_20221103T019460_C001  OCEAN Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20221103T019412_20221103T019460_C001  OCEAN Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20221103T019412_20221103T019460_C001  OCEAN Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20221103T019412_20221103T019460_C001  OCEAN Aftereior Range, SSIA_SWING and Backscatter Country Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20221103T019412_20221103T019453_C001  OCEAN Aftereior Range, SSIA_		OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
SOFFL SIR OPPN 2 20221103T22594 20221103T22595 COOL  CS OFFL SIR OPPN 2 20221103T222211 20221103T222355 COOL  CS OFFL SIR OPPN 2 20221103T222211 20221103T222355 COOL  CS OFFL SIR OPPN 2 20221103T222314 20221103T22355 COOL  CS OFFL SIR OPPN 2 20221103T223045 20221103T223955 COOL  Altereder Range and Backscatter Cuality Flags have been set for one or more records  Altereder Range ASHA, SWH AND		Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_COPRL_2_20221103772231_20221103702235_C001  CS_OFFL_SIR_COPRL_2_202211037223044_20221103722365_C001  CS_OFFL_SIR_COPRL_2_202211037223044_20221103722365_C001  CS_OFFL_SIR_COPRL_2_202211037223044_20221103722365_C001  CS_OFFL_SIR_COPRL_2_202211037223044_202211037223656_C001  CS_OFFL_SIR_COPRL_2_202211037223044_202211037223656_C001  CS_OFFL_SIR_COPRL_2_202211037223044_202211037223656_C001  CS_OFFL_SIR_COPRL_2_202211037223044_202211037223656_C001  CS_OFFL_SIR_COPRL_2_20221103723044_202211037230656_C001  CS_OFFL_SIR_COPRL_2_20221103723044_202211037230656_C001  CS_OFFL_SIR_COPRL_2_20221103723044_202211037001346_C001  CS_OFFL_SIR_COPRL_2_202211037001249_202211037001346_C001  CS_OFFL_SIR_COPRL_2_202211037001249_202211037001346_C001  CS_OFFL_SIR_COPRL_2_202211037001249_202211037001346_C001  CS_OFFL_SIR_COPRL_2_202211037010412_202211037010606_C001  CS_OFFL_SIR_COPRL_2_202211037010412_20221103700606_C001  CS_OFFL_SIR_COPRL_2_20221103700606_C001  CS_OFFL_SIR_COPRL_2_20221103700606_C001  CS_OFFL_SIR_COPRL_2_20221103700606_C001  CS_OFFL_SIR_COPRL_2_20221103700606_C001  CS_OFFL_SIR_COPRL_2_20221103700606_		PLRM	set for one or more records
Absneter Range and Backscatter Quality FIEM CS_OFFL_SIR_GOPN_2_20221103T22044_20221103T22958_CO01  Absneter Range and Backscatter Quality Filings have been set for one or more accods FIEM Through and Backscatter Quality Filings Filing Book Filing		Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
Altimeter Range and Backscatter Quality PLBM, The OCOG Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPN_2_20221103T230752_20221103T230915_C001  CS_OFFL_SIR_GOPN_2_20221103T201242_20221103T201346 C001  CS_OFFL_SIR_GOPN_2_20221103T001243_20221103T001346 C001  CS_OFFL_SIR_GOPR_2_20221103T001243_20221103T001346 C001  CS_OFFL_SIR_GOPR_2_20221103T001243_20221103T001346 C001  CS_OFFL_SIR_GOPR_2_20221103T001412_20221103T001569_C001  CS_OFFL_SIR_GOPR_2_20221103T001412_20221103T0015523_C001  CS_OFFL_SIR_GOPR_2_20221103T001243_20221103T0015523_C001  CS_OFFL_SIR_GOPR_2_20221103T001243_20221103T003006_C001  CS_OFFL_SIR_GOPR_2_20221103T00231_20221103T003006_C001  CS_OFFL_SIR_GOPR_2_20221103T004251_20221103T0042619_C001  CS_OFFL_SIR_GOPR_2_20221103T0042619_C001  CS_OFFL_SIR_GOPR_2_20221103T0042619_C001  CS_OFFL_SIR_GOPR_2_20221103T0042619_C001  CS_OFFL_SIR_GOPR_2_20221103T0040603_20221103T005002_C001  CS_OFFL_SIR_GOPR_2_20	CS_OFFL_SIR_GOPN_2_20221103T222211_20221103T222355_C001	Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
OCG Baskscatter Quality  The OCGA Billimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range and Backscatter Quality Flags have been set for one or more records  The OCGA Range R	CS_OFFL_SIR_GOPN_2_20221103T223044_20221103T223658_C001	Altimeter Range and Backscatter Quality PLRM	set for one or more records
and Backscatter Quality PLRM, COCG Allmeter Range and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Allmeter Range and Backscatter Quality PLRM, COCG Allmete	CS_OFFL_SIR_GOPN_2_20221103T230752_20221103T230915_C001	OCOG Backscatter Quality	
OCOG Backscatter Quality  CS_OFFL_SIR_GOPR_2_20221103T010412_20221103T010609_C001  CS_OFFL_SIR_GOPR_2_20221103T010412_20221103T015523_C001  CS_OFFL_SIR_GOPR_2_20221103T04517_20221103T05523_C001  CS_OFFL_SIR_GOPR_2_20221103T04517_20221103T024535_C001  CS_OFFL_SIR_GOPR_2_20221103T024310_20221103T024535_C001  CS_OFFL_SIR_GOPR_2_20221103T024310_20221103T024535_C001  CS_OFFL_SIR_GOPR_2_20221103T032231_20221103T03006_C001  CS_OFFL_SIR_GOPR_2_20221103T032231_20221103T03006_C001  CS_OFFL_SIR_GOPR_2_20221103T032231_20221103T03206_C001  CS_OFFL_SIR_GOPR_2_20221103T042151_20221103T042619_C001  CS_OFFL_SIR_GOPR_2_20221103T051319_20221103T051714_C001  CS_OFFL_SIR_GOPR_2_20221103T05201_20221103T052322_C001  CS_OFFL_SIR_GOPR_2_20221103T0560472_C0021103T055055_C001  CS_OFFL_SIR_GOPR_2_20221103T0560472_00221103T055055_C001  CS_OFFL_SIR_GOPR_2_20221103T056033_20221103T060435_C001  CS_OFFL_SIR_GOPR_2_20221103T06033_20221103T065055_C001  CS_OFFL_SIR_GOPR_2_20221103T06033_20221103T060435_C001  CS_OFFL_SIR_GOPR_2_20221103T06033_20221103T060435_	CS_OFFL_SIR_GOPN_2_20221103T231242_20221103T231650_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221103T014517_20221103T015523_C001  Altimeter Range and Backscatter Quality PLRM COG	CS_OFFL_SIR_GOPR_2_20221103T001243_20221103T001346_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM COG Altimeter Range and Backscatter Quality PLRM COG Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Plags have been set for one or more records  C	CS_OFFL_SIR_GOPR_2_20221103T010412_20221103T010609_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_20221103T024310_20221103T024535_C001  and Backscatter Quality PLRM, OCOG Altimeter Range	CS_OFFL_SIR_GOPR_2_20221103T014517_20221103T015523_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_20221103T032231_20221103T033006_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Qua	CS_OFFL_SIR_GOPR_2_20221103T024310_20221103T024535_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_20221103T042151_20221103T042619_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20221103T051319_20221103T051714_C001  CS_OFFL_SIR_GOPR_2_20221103T052001_20221103T052322_C001  Ocean Altimeter Range 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 PLRM, OCOG 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 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, ocog Altimeter Range and Ba	CS_OFFL_SIR_GOPR_2_20221103T032231_20221103T033006_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_20221103T051319_20221103T051714_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG 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 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 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 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 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, a	CS_OFFL_SIR_GOPR_2_20221103T042151_20221103T042619_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
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20221103T054647_20221103T055052_C001  CS_OFFL_SIR_GOPR_2_20221103T064033_20221103T060435_C001  CS_OFFL_SIR_GOPR_2_20221103T060033_20221103T060435_C001  And Backscatter Quality PLRM, OCOG 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 Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Rang	CS_OFFL_SIR_GOPR_2_20221103T051319_20221103T051714_C001	OCOG Altimeter Range Quality PLRM,	
CS_OFFL_SIR_GOPR_2_20221103T054647_20221103T055052_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscat	CS_OFFL_SIR_GOPR_2_20221103T052001_20221103T052322_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Fla	CS_OFFL_SIR_GOPR_2_20221103T054647_20221103T055052_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
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and Backscatter Quality Pla	CS_OFFL_SIR_GOPR_2_20221103T060033_20221103T060435_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
PLRIVI	CS_OFFL_SIR_GOPR_2_20221103T064008_20221103T064724_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPR_2_20221103T090451_20221103T091110_C001  CS_OFFL_SIR_GOPR_2_20221103T095956_20221103T100450_C001  CS_OFFL_SIR_GOPR_2_20221103T095956_20221103T100450_C001  CS_OFFL_SIR_GOPR_2_20221103T111637_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T111637_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T1113939_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113939_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T113652_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113643_20221103T112403	een ags een ags een
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20221103T111637_20221103T112403_C001  CS_OFFL_SIR_GOPR_2_20221103T113939_20221103T114549_C001  CS_OFFL_SIR_GOPR_2_20221103T1122633_20221103T1122827_C001  CS_OFFL_SIR_GOPR_2_20221103T131643_20221103T131652_C001  And Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range and Backscatter Quality Flags have been set for component of the Ocog Altimeter Range and Backscatter Quality Flags have been set for compone	een ne or ags een ags
OCOG Backscatter Quality  DOCOG Backscatter Quality  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 and Backscatter Quality PLRM  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have be for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have be for one or more records	ags een ags een
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20221103T122633_20221103T122827_C001  CS_OFFL_SIR_GOPR_2_20221103T131643_20221103T131652_C001  CS_OFFL_SIR_GOPR_2_20221103T131643_20221103T131652_C001  and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatter Quality Flags have In the Ocean Altimeter Range and Backscatt	een ags een
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have I PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have I and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have I and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have I and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have I and Backscatter Quality Flags have I and the OCOG Altimeter Range and Backscatter Quality Flags have I and Backscatter Quality Flags have I and Backscatter Quality Flags have I and the OCOG Altimeter Range and Backscatter Quality Flags have I and Backscatter Quality Flags have I and the OCOG Altimeter Range and Backscatter Quality Flags have I and	een
and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM and the OCOG Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Quality Flags have leading to the Ocog Altimeter Range and Backscatter Qual	gs
CS_OFFL_SIR_GOPR_2_20221103T131652_20221103T131931_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compared to the control of the cont	ne or
CS_OFFL_SIR_GOPR_2_20221103T140542_20221103T140807_C001  CS_OFFL_SIR_GOPR_2_20221103T140542_20221103T140807_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range and Backscatter Quality PLRM.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range and Backscatter Quality Flags have In the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM.	
CS_OFFL_SIR_GOPR_2_20221103T144959_20221103T145047_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compression of the ocog set of the ocog s	ne or
CS_OFFL_SIR_GOPR_2_20221103T154322_20221103T154758_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimete	
CS_OFFL_SIR_GOPR_2_20221103T163233_20221103T163337_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compared to the compared	ne or
CS_OFFL_SIR_GOPR_2_20221103T163452_20221103T163541_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compare records	ne or
CS_OFFL_SIR_GOPR_2_20221103T163910_20221103T164658_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 have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been depe	
CS_OFFL_SIR_GOPR_2_20221103T164821_20221103T164836_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set for compared to the control of the co	ne or
CS_OFFL_SIR_GOPR_2_20221103T172327_20221103T172733_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 have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been depe	
CS_OFFL_SIR_GOPR_2_20221103T173725_20221103T174135_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 have I and the OCOG Altimeter Range and Backscatter Quality Flags have I PLRM.	
CS_OFFL_SIR_GOPR_2_20221103T180621_20221103T180741_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compared to the control of the cont	ne or
CS_OFFL_SIR_GOPR_2_20221103T180948_20221103T181054_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compared to the control of the cont	ne or
CS_OFFL_SIR_GOPR_2_20221103T181054_20221103T181540_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the ocognity of the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality Flags have been set for compared to the OCOG Range and Backscatter Quality	ne or
CS_OFFL_SIR_GOPR_2_20221103T181711_20221103T181829_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 have In the Ocog Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range and Backscatter Quality Flags have In the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags have In the Ocog Altimeter Range and Backscatte	
CS_OFFL_SIR_GOPR_2_20221103T181917_20221103T182730_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 have In the Ocog Altimeter Range and Backsca	
CS_OFFL_SIR_GOPR_2_20221103T191619_20221103T192031_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 have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been depe	
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 have been been been been been been been be	
CS_OFFL_SIR_GOPR_2_20221103T205403_20221103T210101_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 have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been depe	
CS_OFFL_SIR_GOPR_2_20221103T211326_20221103T211506_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for compared to the compared	ne or

CS_OFFL_SIR_GOPR_2_20221103T222047_20221103T222211_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_20221103T231650_20221103T232141_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_20221103T232902_20221103T232909_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_20221103T232910_20221103T232935_C001	, ,	The OCOG Range and Backscatter Quality Flags have been set for one or more records

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

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

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

Number of products with errors:

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

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

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

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

Number of products with errors:

### 6. GOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

### 6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20221102T231943_20221103T000922_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_20221103T000922_20221103T005858_C001	Mean Sea 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_20221103T005858_20221103T014837_C001	Mean Sea 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_20221103T014837_20221103T023813_C001	Mean Sea 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_20221103T023813_20221103T032751_C001	Mean Sea 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_20221103T032751_20221103T041728_C001	Mean Sea 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_20221103T041728_20221103T050706_C001	Mean Sea 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_20221103T050706_20221103T055642_C001	Mean Sea 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

	Maca Coa Curface (1) Maca Dynamia	
CS_OFFL_SIR_GOP_2_20221103T055642_20221103T064621_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_20221103T064621_20221103T073557_C001	Mean Sea 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_20221103T073557_20221103T082535_C001	Mean Sea 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_20221103T082535_20221103T091511_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_20221103T091511_20221103T100450_C001	Mean Sea 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_20221103T100450_20221103T105426_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20221103T105426_20221103T114405_C001	Mean Sea 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_20221103T114405_20221103T123341_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20221103T123341_20221103T132320_C001	Mean Sea 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_20221103T132320_20221103T141256_C001	Mean Sea 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_20221103T141256_20221103T150234_C001	Mean Sea 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_20221103T150234_20221103T155210_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20221103T155210_20221103T164149_C001	Mean Sea 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_20221103T164149_20221103T173125_C001	Mean Sea 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_20221103T173125_20221103T182104_C001	Mean Sea 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_20221103T182104_20221103T191040_C001	Mean Sea 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_20221103T191040_20221103T200018_C001	Mean Sea 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_20221103T200018_20221103T204954_C001	Mean Sea 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_20221103T204954_20221103T213933_C001	Mean Sea 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_20221103T213933_20221103T222909_C001	Mean Sea 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_20221103T222909_20221103T231848_C001	Mean Sea 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_20221103T231848_20221104T000824_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 Confidence Data Check

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

Number of products with errors:

### P2P Quality Flags (20 Hz)

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

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

0

Number of products with errors: 30

### P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

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

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

Number of products with errors:

#### 6.8 P2P Ocean Retracking Quality Check

### P2P Retracking Flags (20 Hz)

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

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

#### P2P Retracking Flags PLRM

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

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

Number of products with errors:

30

# 7. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors	
SIR_GOPM1B	205	205	4	201	0	
SIR_GOPR1B	107	107	0	107	0	
SIR_GOPN1B	98	98	0	98	0	
SIR_GOPM_2	203	203	147	56	0	
SIR_GOPR_2	106	106	31	75	0	
SIR_GOPN_2	98	98	36	62	0	
SIR GOP P2P	29	29	0	29	0	

### 7.1 QCC Errors

Number of QCC reports with errors:

0

### 7.2 QCC Warnings

Number of QCC reports with warnings

2237

Total numb	er of occurrences of e	ach warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOPM1B	201	0	0	0	0	0	0
SIR_GOPM_2	0	37	36	0	45	0	39
SIR_GOPN1B	96	0	0	0	0	0	0
SIR_GOPN_2	0	11	35	5	28	32	19
SIR_GOPR1B	105	0	0	0	0	0	0
SIR_GOPR_2	0	40	49	0	37	29	17

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	30	0	0	0	0	27
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	2	0	0	27	0	37	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	5	0	47	0	52	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	5	29	0	4	32
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	31	9	43	51	25	31
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	48	0	2	64	42	15	44

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_GOPM1B	0	0	1	0	0	0	
SIR_GOPM_2	0	4	1	0	0	0	
SIR_GOPN1B	0	0	0	0	47	3	
SIR_GOPN_2	34	14	0	3	0	0	
SIR_GOPR1B	0	0	1	0	107	5	
SIR_GOPR_2	51	0	0	2	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	10	29	29	5	29	19	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	4	19	29	24	15	29	19
	,	,				,	,
Davidous Trans	DCCHAONODE	DOWINGEDEDNICHE	DOWNOEDEDDI DMNODE	DOWINGEDNODE	CDLII DOWNODE		

	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	-
	SIR_GOP_2_	22	29	19	14	29		
_								
- 1	Test Description Key:							

Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

L1B and L2 Product name

P2P Product name
CS\_OFFL\_SIR\_GOP\_2\_20221103T231848\_20221104T000824\_C002