

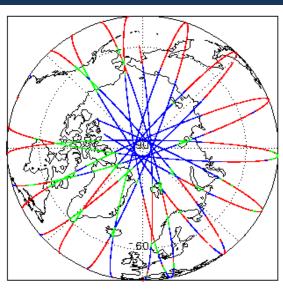
## 1. Overview

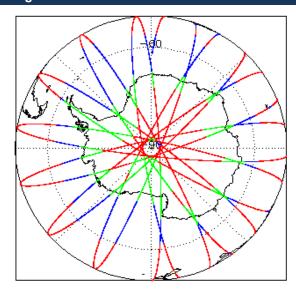
Report Production:	06-Dec-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP)	

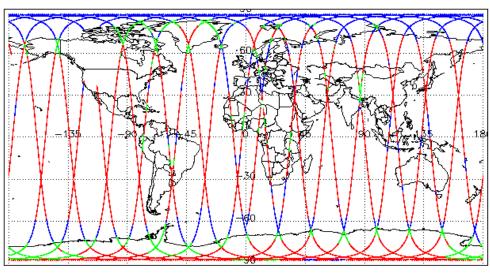
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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 and 7.3	See Section 7.2 and 7.3

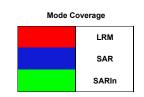
Mi	ission / Instru	ment News
C	04-Nov-2021	None
C	05-Nov-2021	None
C	06-Nov-2021	Nothing planned

## 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

## 4. GOP Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

## 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

Ω

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

#### 4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20211105T001138_20211105T001558_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20211105T095837_20211105T100026_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20211105T152822_20211105T154312_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20211105T033331_20211105T033514_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20211105T064706_20211105T065155_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20211105T122731_20211105T123140_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20211105T145851_20211105T145946_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20211105T163648_20211105T163902_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T004808_20211105T005234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T011624_20211105T011849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T014201_20211105T014826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T113237_20211105T113415_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T123837_20211105T124251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T145947_20211105T150528_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20211105T163902_20211105T164548_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 binary product file (.DBL).

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

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:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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Number of products with errors:

**Product** 

Test Failed

Description

CS_OFFL_SIR_GOPM_2_20211105T161653_20211105T163252_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPM_2_20211105T173809_20211105T181331_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20211105T005234_20211105T005446_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_20211105T005838_20211105T010209_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_20211105T023317_20211105T023551_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_20211105T032824_20211105T032945_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20211105T040846_20211105T041439_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_20211105T050247_20211105T050351_C002	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_20211105T050752_20211105T051004_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_20211105T055044_20211105T055227_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_20211105T060104_20211105T060305_C002	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_20211105T064706_20211105T065155_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_20211105T091119_20211105T091348_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20211105T104943_20211105T105255_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_20211105T113416_20211105T113543_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20211105T122731_20211105T123140_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_20211105T123712_20211105T123837_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_20211105T131650_20211105T132049_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20211105T141506_20211105T141649_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_20211105T145851_20211105T145946_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_20211105T155259_20211105T155516_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_20211105T163252_20211105T163552_C001	mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Fauilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20211105T163648_20211105T163902_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20211105T172316_20211105T172508_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_20211105T173154_20211105T173638_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_20211105T181331_20211105T181726_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_20211105T190321_20211105T190553_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_20211105T191402_20211105T191500_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_20211105T204204_20211105T204336_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_20211105T222223_20211105T222336_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_20211105T000213_20211105T000928_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_20211105T000928_20211105T001105_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_20211105T014201_20211105T014826_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_20211105T014826_20211105T014953_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_20211105T032136_20211105T032710_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20211105T032710_20211105T032824_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_20211105T050352_20211105T050445_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_20211105T050445_20211105T050752_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20211105T064018_20211105T064706_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_20211105T082210_20211105T082733_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_20211105T095019_20211105T095216_C002	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_20211105T100118_20211105T100914_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_20211105T113948_20211105T114746_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_20211105T132049_20211105T132823_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_20211105T145947_20211105T150528_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_20211105T150542_20211105T150659_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_20211105T163902_20211105T164548_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_20211105T181726_20211105T182246_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_20211105T195543_20211105T200540_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_20211105T213318_20211105T214056_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_20211105T215017_20211105T215050_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_20211105T215102_20211105T215213_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_20211105T231217_20211105T231900_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_20211105T231900_20211105T232025_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20211104T235031_20211105T000157_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_20211105T001138_20211105T001558_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20211105T003153_20211105T003641_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.

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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
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.
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.
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.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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.
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.
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.
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.
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.
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Alt

CS_OFFL_SIR_GOPM_2_20211105T055228_20211105T060104_C001  CS_OFFL_SIR_GOPM_2_20211105T060434_20211105T062602_C001  CS_OFFL_SIR_GOPM_2_20211105T070340_20211105T072757_C001  CS_OFFL_SIR_GOPM_2_20211105T070340_20211105T072777_C001  CS_OFFL_SIR_GOPM_2_20211105T0727420_2021105T072777_	Quality Flags gs have been Quality Flags gs have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Fla and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	gs have been Quality Flags gs have been
CS_OFFL_SIR_GOPM_2_20211105T070340_20211105T072757_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Fla set for one or more records.	gs have been
OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags h	nave been set
CS_OFFL_SIR_GOPM_2_20211105T073430_20211105T073904_C001  Backscatter Quality  for one or more records.	
CS_OFFL_SIR_GOPM_2_20211105T074404_20211105T074645_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flamed Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T074729_20211105T080716_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flands Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T084051_20211105T090545_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Fla set for one or more records.	, ,
CS_OFFL_SIR_GOPM_2_20211105T091348_20211105T091940_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags In for one or more records.	nave been set
CS_OFFL_SIR_GOPM_2_20211105T092309_20211105T094325_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flameter Range	
CS_OFFL_SIR_GOPM_2_20211105T101214_20211105T104512_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flameter Range	
CS_OFFL_SIR_GOPM_2_20211105T105256_20211105T105812_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags in for one or more records.	nave been set
CS_OFFL_SIR_GOPM_2_20211105T110451_20211105T110654_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Fla Set for one or more records.	
CS_OFFL_SIR_GOPM_2_20211105T113543_20211105T113948_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flands Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T115005_20211105T120059_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flands Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T120345_20211105T122504_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flands Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T123305_20211105T123712_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags In for one or more records.	nave been set
CS_OFFL_SIR_GOPM_2_20211105T124251_20211105T125217_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Fla Set for one or more records.	
CS_OFFL_SIR_GOPM_2_20211105T125404_20211105T130021_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flands Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T130155_20211105T130639_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Fla set for one or more records.	
CS_OFFL_SIR_GOPM_2_20211105T132936_20211105T140351_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flamed Backscatter Qual	
CS_OFFL_SIR_GOPM_2_20211105T140643_20211105T141157_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags in for one or more records.	nave been set
CS_OFFL_SIR_GOPM_2_20211105T142257_20211105T145323_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Fla set for one or more records.	
CS_OFFL_SIR_GOPM_2_20211105T145806_20211105T145851_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags in for one or more records.	nave been set
CS_OFFL_SIR_GOPM_2_20211105T150859_20211105T150917_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags in for one or more records.	nave been set
CS_OFFL_SIR_GOPM_2_20211105T150928_20211105T151252_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Fla set for one or more records.	
CS_OFFL_SIR_GOPM_2_20211105T151254_20211105T152622_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Set for one or more records.	

CS_OFFL_SIR_GOPM_2_20211105T152822_20211105T154312_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_20211105T154553_20211105T155056_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_20211105T155135_20211105T155259_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_20211105T160021_20211105T161034_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_20211105T161653_20211105T163252_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_20211105T165120_20211105T170111_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_20211105T170401_20211105T170644_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_20211105T170823_20211105T172142_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_20211105T172508_20211105T173007_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_20211105T173809_20211105T181331_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_20211105T183952_20211105T190025_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_20211105T190553_20211105T190925_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_20211105T190948_20211105T191311_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_20211105T191641_20211105T194444_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_20211105T201631_20211105T204005_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_20211105T204336_20211105T204840_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_20211105T204847_20211105T205215_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_20211105T205633_20211105T212947_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_20211105T214152_20211105T214425_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_20211105T220428_20211105T220519_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_20211105T221526_20211105T221813_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_20211105T222336_20211105T222913_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_20211105T223653_20211105T230913_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_20211105T232120_20211105T232312_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_20211105T234145_20211105T235732_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_20211105T073332_20211105T073429_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_20211105T112031_20211105T112215_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_20211105T223115_20211105T223231_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_20211105T232845_20211105T232904_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T043041_20211105T043153_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T062705_20211105T062744_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T090545_20211105T090952_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T155110_20211105T155115_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T172143_20211105T172316_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T182320_20211105T182430_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T213137_20211105T213142_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20211105T213318_20211105T214056_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20211105T001558_20211105T001631_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_20211105T002827_20211105T003153_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_20211105T005234_20211105T005446_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_20211105T005838_20211105T010209_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_20211105T015410_20211105T015459_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_20211105T023745_20211105T024044_C002	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_20211105T024216_20211105T024410_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_20211105T035604_20211105T035710_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_20211105T040846_20211105T041439_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_20211105T050247_20211105T050351_C002	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_20211105T051123_20211105T051352_C002	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_20211105T051546_20211105T051708_C002	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_20211105T060104_20211105T060305_C002	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

DOC Almote Range Quality F.P.M. DOC Almote Range Quality F.P.M. DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other research.  DOC Almote Range Quality F.P.M. The COOD Range and Backerathr Quality Raps have been self or one or other rese	CS_OFFL_SIR_GOPN_2_20211105T062744_20211105T063101_C002	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_SR_GGPN_2_20211105109102_20211105109104_0002  COOR Amenter Region Dealty PLRM.  CS_OFFL_SR_GGPN_2_20211105109106_20211105109104_0002  COOR Amenter Region Dealty PLRM.  CS_OFFL_SR_GGPN_2_202111051090002_20211105109115_CO02  CS_OFFL_SR_GGPN_2_202111051090002_20211105109115_CO02  CS_OFFL_SR_GGPN_2_202111051090002_20211105109115_CO02  CS_OFFL_SR_GGPN_2_202111051090002_20211105109115_CO02  CS_OFFL_SR_GGPN_2_202111051090002_20211105109115_CO02  CS_OFFL_SR_GGPN_2_202111051090002_2021110510910000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20211105T064706_20211105T065155_C001		
Comparison	CS_OFFL_SIR_GOPN_2_20211105T073332_20211105T073429_C001		
CSI OFFL SRI, GOPR 2 20211931103093 20211105119134 COVID Allinova Range SRIA, RNM and Recognition Country Flags note because Country Flags and Covid Allinova Range SRIA, RNM and Recognition Country Flags note because Covid Review Range SRIA, RNM and Recognition Country Flags note because Covid Review Range SRIA, RNM and Recognition Country Flags note because Covid Review Range SRIA, RNM and Recognition Country Flags note because Covid Review Range SRIA, RNM and Recognition Country Flags note bears of the Covid Review Range SRIA, RNM and Recognition Country Flags Note bears and to review Range SRIA, RNM and Recognition Country Flags Note bears and to review Range SRIA, RNM and Recognition Country Flags Note bears and to review Range SRIA, RNM and Recognition Country Flags Note bears and to review Range SRIA, RNM and Recognition Country Flags Note bears and to review Range SRIA, RNM and Recognition Country Flags Note bears and	CS_OFFL_SIR_GOPN_2_20211105T081138_20211105T081244_C002		
Big   Dept   2, 20111051105010, 2011105110514   Cotto   Cott	CS_OFFL_SIR_GOPN_2_20211105T081915_20211105T082003_C002		
CS_OFFL_SIR_GOPN_2_20211105T100314_20211105T100314_0021_0001  CS_OFFL_SIR_GOPN_2_20211105T100314_20211105T100314_0001  CS_OFFL_SIR_GOPN_2_20211105T100314_20211105T100314_0001  CS_OFFL_SIR_GOPN_2_20211105T100314_20211105T103155_0001  CS_OFFL_SIR_GOPN_2_20211105T100314_20211105T103155_0001  CS_OFFL_SIR_GOPN_2_20211105T100314_20211105T103155_0001  CS_OFFL_SIR_GOPN_2_20211105T10314_0001  CS_OFFL_SIR_GOPN_2_20211105T10314_0001  CS_OFFL_SIR_GOPN_2_20211105T10314_0001  CS_OFFL_SIR_GOPN_2_20211105T10314_0001  CS_OFFL_SIR_GOPN_2_20211105T10314_0001  CS_OFFL_SIR_GOPN_2_20211105T10314_0001  CS_OFFL_SIR_GOPN_2_20211105T100314_0001  CS_OFFL_SIR_GOPN_2_20211105T100312_2021105T1003134_0001  CS_OFFL_SIR_GOPN_2_20211105T100312_20211105T1003134_0001  CS_OFFL_SIR_GOPN_2_20211105T100312_20211105T1003134_0001  CS_OFFL_SIR_GOPN_2_20211105T100322_20211105T1003134_0001  CS_OFFL_SIR_GOPN_2_20211105T100312_20211105T1003134_0001  CS_OFFL_SIR_GOPN_2_20211105T100322_20211105T1003134_0001  CS_OFFL_SIR_GOPN_2_20211105T100322_20211105T10	CS_OFFL_SIR_GOPN_2_20211105T090953_20211105T091113_C002	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCO Alimeter Range and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range Quality PLEM. OCO Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range Quality PLEM. OCO Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range Quality PLEM. OCO Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range SHA SWH and Backscatter Quality Fligs have been set for one or not records.  OCO Alimeter Range Quality Fligh.  OCO Alimeter Range Quality Fligh.  OCO OCO Alimeter Range Quality Fligh.  OCO OCO Backscatter Quality Fligh have been set for one or not records.  OCO Alimeter Range Quality Fligh.  OCO OCO Backscatter Quality	CS_OFFL_SIR_GOPN_2_20211105T091119_20211105T091348_C001		
OS_OFFL_SIR_OPFL_2.02111051113049_702111051113145_C001  OS_OFFL_SIR_OPFL_2.0211105111309_702111051113145_C001  OS_OFFL_SIR_OPFL_2.0211105111309_702111051113145_C001  OS_OFFL_SIR_OPFL_2.0211105111309_702111051113145_C001  OS_OFFL_SIR_OPFL_2.0211105111309_702111051113145_C001  OS_OFFL_SIR_OPFL_2.0211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_70211105111309_702111051110511309_70211105111051105109_7021105110511051105109_7021105110511051051051051051051051051051051	CS_OFFL_SIR_GOPN_2_20211105T100914_20211105T101021_C001		
OCC Backscarler Quality No. OCC Backscarler Qu	CS_OFFL_SIR_GOPN_2_20211105T104943_20211105T105255_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscater Quality PLRN. CS_OFFL_SIR_GOPN_2_20211105T140505_2021105T140543_C001  CS_OFFL_SIR_GOPN_2_20211105T141506_2021105T141549_C001  CS_OFFL_SIR_GOPN_2_20211105T141506_2021105T141549_C001  CS_OFFL_SIR_GOPN_2_20211105T141506_2021105T141549_C001  CS_OFFL_SIR_GOPN_2_20211105T141531_2021105T145349_C001  CS_OFFL_SIR_GOPN_2_20211105T145351_20211105T145349_C001  CS_OFFL_SIR_GOPN_2_20211105T145351_20211105T145349_C001  CS_OFFL_SIR_GOPN_2_20211105T155299_20211105T15539_C001  CS_OFFL_SIR_GOPN_2_20211105T15334_C0011  CS_OFFL_SIR_GOPN_2_20211105T15334_20211105T151334_C001  CS_OFFL_SIR_GOPN_2_20211105T161034_2021105T151334_C001  CS_OFFL_SIR_GOPN_2_20211105T161034_2021105T161034_2021105T161034_C001105T16103	CS_OFFL_SIR_GOPN_2_20211105T113039_20211105T113158_C001		
and Backscatter Quality PLRM, COOG Allmeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20211105T14506_20211105T146946_CO01  CS_OFFL_SIR_GOPN_2_20211105T145881_20211105T145946_CO01  CS_OFFL_SIR_GOPN_2_20211105T145881_20211105T145946_CO01  CS_OFFL_SIR_GOPN_2_20211105T145894_20211105T145946_CO01  CS_OFFL_SIR_GOPN_2_20211105T145894_20211105T145946_CO01  CS_OFFL_SIR_GOPN_2_20211105T145894_20211105T145946_CO01  CS_OFFL_SIR_GOPN_2_20211105T145299_20211105T18516_CO01  CS_OFFL_SIR_GOPN_2_20211105T145299_20211105T185316_CO01  CS_OFFL_SIR_GOPN_2_20211105T18529_20211105T185316_CO01  CS_OFFL_SIR_GOPN_2_20211105T18329_2021105T18331_CO01  CS_OFFL_SIR_GOPN_2_20211105T18329_2021105T183327_CO01  CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T183327_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T193053_CO01  CS_OFFL_SIR_GOPN_2_20211105T193022_20211105T23334_CO01  CCS_OFFL_SIR_GOPN_2_20211105T193022_20211105T23334_CO01  CCS_OFFL_SIR_GOPN_2_20211105T22233_20211105T23334_CO01  CCS_OFFL_SIR_GOPN_2_20211105T23305_20211105T23334_CO01  CCS_OFFL_SIR_GOPN_2_20211105T23305_20211105T23334_CO01  CCS_OFFL_SIR_GOPN_2_20211105T22223_20211105T223334_CO01  CCCG_AFFIneter Range_Quality PLRM. C	CS_OFFL_SIR_GOPN_2_20211105T113416_20211105T113543_C001		
CS_OFFL_SIR_GOPN_2_20211105T14150B_20211105T141594R_CO01  CS_OFFL_SIR_GOPN_2_20211105T145951_20211105T14594R_CO01  CS_OFFL_SIR_GOPN_2_20211105T155259_20211105T15551B_CO01  CS_OFFL_SIR_GOPN_2_20211105T161034_20211105T16114D_CO01  CS_OFFL_SIR_GOPN_2_20211105T161034_20211105T161034_2021105T161034	CS_OFFL_SIR_GOPN_2_20211105T140505_20211105T140643_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_GOPN_2_20211105T195289_20211105T195516_C001  CS_OFFL_SIR_GOPN_2_20211105T195289_20211105T195516_C001  CS_OFFL_SIR_GOPN_2_20211105T195289_20211105T195516_C001  CS_OFFL_SIR_GOPN_2_20211105T195193_2011105T19519_C001  CS_OFFL_SIR_GOPN_2_20211105T195193_2011105T19519_C001  CS_OFFL_SIR_GOPN_2_20211105T195193_2011105T19539_C001  CS_OFFL_SIR_GOPN_2_20211105T195193_2011105T19539_C001  CS_OFFL_SIR_GOPN_2_20211105T193321_20211105T183327_C001  CS_OFFL_SIR_GOPN_2_20211105T193321_20211105T183327_C001  CS_OFFL_SIR_GOPN_2_20211105T193321_20211105T183327_C001  CS_OFFL_SIR_GOPN_2_20211105T193321_20211105T183327_C001  CCS_OFFL_SIR_GOPN_2_20211105T190321_20211105T183327_C001  CCS_OFFL_SIR_GOPN_2_20211105T190321_20211105T183327_C001  CCS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190353_C001  CCS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190353_C001  CCS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205223_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205348_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T20538_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T20538_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T20538_C001  CCS_OFFL_SIR_GOPN_2_20211105T205342_2001105T205233_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205238_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205238_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_20211105T205238_C001  CCS_OFFL_SIR_GOPN_2_20211105T205232_202	CS_OFFL_SIR_GOPN_2_20211105T141506_20211105T141649_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 FLRM, COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20211105T161034_20211105T161140_C001  CS_OFFL_SIR_GOPN_2_20211105T161034_20211105T161140_C001  CS_OFFL_SIR_GOPN_2_20211105T173154_20211105T173638_C001  CS_OFFL_SIR_GOPN_2_20211105T173154_20211105T173638_C001  CS_OFFL_SIR_GOPN_2_20211105T173154_20211105T181726_C001  CS_OFFL_SIR_GOPN_2_20211105T18331_20211105T181726_C001  CS_OFFL_SIR_GOPN_2_20211105T18332_20211105T183327_C001  CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T183327_C001  CS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190553_C001  CS_OFFL_SIR_GOPN_2_20211105T190321_20211105T205348_C001  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CS_OFFL_SIR_GOPN_2_20211105T205225_20211105T213314_C001  CS_OFFL_SIR_GOPN_2_20211105T22232_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22232_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22232_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22232_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T22336_C001  CS_OFFL_SIR_GOPN_2_20211105T23306_20211105T22336_C001  CS_	CS_OFFL_SIR_GOPN_2_20211105T145851_20211105T145946_C001		
OCG Backscatter Quality  CS_OFFL_SIR_GOPN_2_20211105T101034_20211105T173638_C001  CS_OFFL_SIR_GOPN_2_20211105T173154_20211105T173638_C001  CS_OFFL_SIR_GOPN_2_20211105T181331_20211105T181726_C001  CS_OFFL_SIR_GOPN_2_20211105T181331_20211105T181726_C001  CS_OFFL_SIR_GOPN_2_20211105T181331_20211105T181726_C001  CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T183327_C001  CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T190553_C001  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CS_OFFL_SIR_GOPN_2_20211105T222215_20211105T223348_C001  CS_OFFL_SIR_GOPN_2_20211105T222223_20211105T223318_C001  CS_OFFL_SIR_GOPN_2_20211105T222223_20211105T22338_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T22338_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T22338_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T22338_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T22338_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_2_20211105T222338_C001  CS_OFFL_SIR_GOPN_	CS_OFFL_SIR_GOPN_2_20211105T155259_20211105T155516_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_GOPN_2_20211105T173154_20211105T18338_CO01  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T183327_CO01  CS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190553_CO01  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_CO01  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T213134_CO01  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_CO01  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213318_CO01  CS_OFFL_SIR_GOPN_2_20211105T2122232_20211105T223318_CO01  CS_OFFL_SIR_GOPN_2_20211105T220322_20211105T220328_CO01  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T220328_CO01  CS_OFFL_SIR_GOPN_2_20211105T220322_20211105T220338_CO01  CS_OFFL_SIR_GOPN_2_20211105T220322_20211105T220338_CO01  CS_OFFL_SIR_GOPN_2_20211105T220322_20211105T220338_CO01  CCGG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG B	CS_OFFL_SIR_GOPN_2_20211105T161034_20211105T161140_C001		
CS_OFFL_SIR_GOPN_2_20211105T181331_20211105T18327_C001  CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T18327_C001  CS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190553_C001  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T295348_C001  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220328_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220332_20211105T220336_C001  CCOG Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, The	CS_OFFL_SIR_GOPN_2_20211105T173154_20211105T173638_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_GOPN_2_20211105T190321_20211105T190553_C001  CS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190553_C001  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T212305_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T22032_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T2202336_C001  CS_OFFL_SIR_GOPN_2_20211105T2202336_C001  CS_OFFL_SIR_GOPN_2_20211105T2202336_C001  CS_OFFL_SIR_GOPN_2_20211105T2202336_C001  CS_OFFL_SIR_GOPN_2_20211105T220336_C001  CS_OF	CS_OFFL_SIR_GOPN_2_20211105T181331_20211105T181726_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_GOPN_2_20211105T205215_20211105T205348_C001  CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T22036_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T22036_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T22036_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222336_C001  CS_OFFL_SIR_GOPN_	CS_OFFL_SIR_GOPN_2_20211105T183223_20211105T183327_C001		
CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_C001  CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220336_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_2021110	CS_OFFL_SIR_GOPN_2_20211105T190321_20211105T190553_C001		
CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213318_C001  CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T223318_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T222233_20211105T222336_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T232312_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T23236_C001  CS_OFFL_SIR_GOPN_2_20211105T23236_C	CS_OFFL_SIR_GOPN_2_20211105T205215_20211105T205348_C001		
CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH 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_20211105T22223_20211105T222336_C001  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20211105T212947_20211105T213134_C001		
OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG 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.  OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or or more records.  OCOG Altimeter Range Quality PLRM,  OCOG Altimeter Range Quality PLRM,  The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20211105T213205_20211105T213318_C001		
CS_OFFL_SIR_GOPN_2_20211105T22223_20211105T222336_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20211105T220232_20211105T220428_C001		
	CS_OFFL_SIR_GOPN_2_20211105T222223_20211105T222336_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality more records.	CS_OFFL_SIR_GOPN_2_20211105T232912_20211105T232952_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_20211105T234048_20211105T234145_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_20211105T000213_20211105T000928_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_20211105T003641_20211105T003828_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_20211105T004808_20211105T005234_C002	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_20211105T010209_20211105T010546_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_20211105T014201_20211105T014826_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_20211105T014826_20211105T014953_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_20211105T015459_20211105T015533_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_20211105T022618_20211105T023316_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_20211105T032136_20211105T032710_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_20211105T035051_20211105T035304_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_20211105T050150_20211105T050247_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_20211105T050352_20211105T050445_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_20211105T050445_20211105T050752_C002	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_20211105T052021_20211105T052151_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_20211105T063936_20211105T064018_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_20211105T064018_20211105T064706_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_20211105T072757_20211105T073019_C002	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_20211105T074123_20211105T074404_C002	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_20211105T081802_20211105T081858_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_20211105T082210_20211105T082733_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_20211105T090545_20211105T090952_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_20211105T095535_20211105T095722_C002	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_20211105T100118_20211105T100914_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_20211105T104513_20211105T104943_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_20211105T105925_20211105T110451_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_20211105T113237_20211105T113415_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_20211105T113948_20211105T114746_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_20211105T114746_20211105T114838_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_20211105T122504_20211105T122731_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_20211105T123837_20211105T124251_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_20211105T132049_20211105T132823_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_20211105T141649_20211105T142218_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_20211105T145947_20211105T150528_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_20211105T150542_20211105T150659_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_20211105T155516_20211105T160021_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_20211105T161441_20211105T161653_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_20211105T163902_20211105T164548_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_20211105T181726_20211105T182246_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_20211105T182320_20211105T182430_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_20211105T190025_20211105T190321_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_20211105T191500_20211105T191641_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_20211105T195543_20211105T200540_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_20211105T205348_20211105T205633_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_20211105T213318_20211105T214056_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_20211105T214425_20211105T214552_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_20211105T221813_20211105T222223_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_20211105T223231_20211105T223653_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_20211105T231217_20211105T231900_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_20211105T231900_20211105T232025_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_20211105T232419_20211105T232751_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_20211105T233003_20211105T233339_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		

Number of products with errors:

19

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

75

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

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

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

Number of products with errors:

141

#### 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:

0

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

0

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this 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_220211104T231853_20211105T000830_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_220211105T000830_20211105T005808_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_220211105T005808_20211105T014744_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_20211105T014744_20211105T023723_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_20211105T023723_20211105T032659_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211105T032659_20211105T041637_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211105T041637_20211105T050614_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_220211105T050614_20211105T055552_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_20211105T055552_20211105T064529_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_20211105T064529_20211105T073507_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_20211105T073507_20211105T082443_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_220211105T082443_20211105T091421_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), 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_220211105T091421_20211105T100358_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_220211105T100358_20211105T105336_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_20211105T105336_20211105T114313_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211105T114313_20211105T123251_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_20211105T123251_20211105T132227_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20211105T132227_20211105T141205_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_20211105T141205_20211105T150142_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_20211105T150142_20211105T155120_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_220211105T155120_20211105T164057_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), 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_20211105T164057_20211105T173035_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_220211105T173035_20211105T182011_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), 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_20211105T182011_20211105T190949_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_20211105T190949_20211105T195926_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_20211105T195926_20211105T204904_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_20211105T204904_20211105T213841_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_20211105T213841_20211105T222819_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_20211105T222819_20211105T231755_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_20211105T231755_20211106T000733_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:

Product Test Failed Description

## 6.6 P2P Measurement Quality Flag Check

## P2P Quality Flags (20Hz)

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

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

Number of products with errors:

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

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

Number of products with errors:

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

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

lumber of products with errors: 3

#### 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 2

#### P2P Retracking Flags PLRM

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

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

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	186	186	3	183	0
SIR_GOPR1B	122	122	0	122	0
SIR_GOPN1B	111	111	1	110	0
SIR_GOPM_2	186	186	128	58	0
SIR_GOPR_2	122	122	47	75	0
SIR_GOPN_2	110	110	46	64	0
SIR_GOP_P2P	29	29	0	29	0

## 7.1 QCC Errors

Number of QCC reports with errors:

(

# 7.2 QCC Warnings

Number of QCC reports with warnings

2149

Total number of	occurrences	of each	warnin

	Total number of occurrences of each warning						
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOPM1B	183	0	0	0	0	0	0
SIR_GOPM_2	0	41	41	2	36	0	28
SIR_GOPN1B	107	0	0	0	0	0	0
SIR_GOPN_2	0	9	30	6	26	27	19
SIR_GOPR1B	116	0	0	0	0	0	0
SIR GOPR 2	0	32	36	1	35	30	15

Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	36	0	0	0	0	27	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	22	0	32	0	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	41	0	51	0	0	43

Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	2	24	0	5	34	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	28	18	47	52	30	30	26
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	2	63	34	5	38	44

Product Type	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	-
SIR_GOPM1B	0	0	0	0	0		
SIR_GOPM_2	1	0	0	0	0		
SIR_GOPN1B	0	0	0	45	1		
SIR_GOPN_2	14	0	0	0	0		
SIR_GOPR1B	0	1	0	122	6		
SIR_GOPR_2	1	0	3	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	14	29	29	7	29	18	29

Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOP_2_	17	28	24	17	29	18	23
	·	•	•	•	•	•	~

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•	-
SIR_GOP_2_	29	19	13	29			

Test Description Key:	T4	B-4-ll-
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
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	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:

Product name
CS_OFFL_SIR_GOPN_2_20211105T032824_20211105T032945_C002
CS_OFFL_SIR_GOPN_2_20211105T051123_20211105T051352_C002
CS_OFFL_SIR_GOPN_2_20211105T063151_20211105T063312_C002
CS_OFFL_SIR_GOPN_2_20211105T081138_20211105T081244_C002
CS_OFFL_SIR_GOPN_2_20211105T090953_20211105T091113_C002
CS_OFFL_SIR_GOPN_2_20211105T091940_20211105T092107_C002
CS_OFFL_SIR_GOPR_2_20211105T004808_20211105T005234_C002
CS_OFFL_SIR_GOPR_2_20211105T015010_20211105T015410_C002
CS_OFFL_SIR_GOPR_2_20211105T050445_20211105T050752_C002
CS_OFFL_SIR_GOPR_2_20211105T074123_20211105T074404_C002
CS OFFI SID CORD 2 20211105T083858 20211105T084051 C002

12

Product name
CS_OFFL_SIR_GOP_220211105T231755_20211106T000733_C002
0
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