

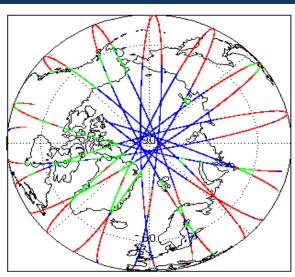
# 1. Overview

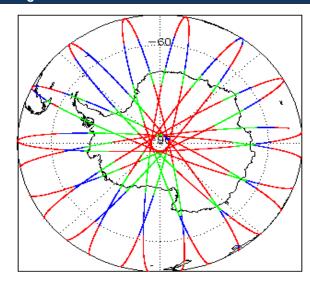
Report Production:	20-Aug-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

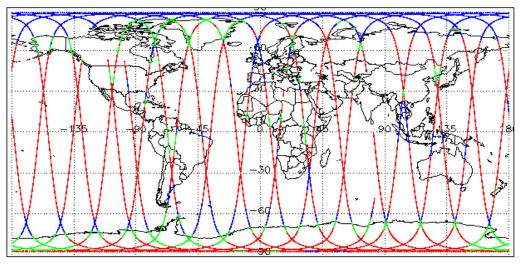
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1, 7.2 and 7.3	See Section 7.1, 7.2 and 7.3

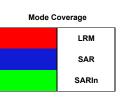
Ì	Mission / Instru	ment News
	20-Jul-2021	None
	21-Jul-2021	None
	22-Jul-2021	Unavailability due to ground segment anomaly on 22/07/2021 from 05:09:14 until 06:48:13

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210721T010919_20210721T011437_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20210721T220736_20210721T222012_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210721T092433_20210721T094114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T023044_20210721T023449_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T024225_20210721T024301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T073957_20210721T074400_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T092156_20210721T092433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T095647_20210721T095729_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T105813_20210721T110032_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T160123_20210721T160256_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T204404_20210721T204820_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T204901_20210721T204939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T210323_20210721T210543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T214753_20210721T214926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210721T222448_20210721T222914_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210721T085030_20210721T085232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210721T110346_20210721T110607_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210721T222247_20210721T222354_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:

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

# 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors.		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210721T010717_20210721T010755_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20210721T122852_20210721T122921_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20210721T122921_20210721T122927_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_20210721T001430_20210721T001634_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_20210721T023044_20210721T023449_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_20210721T050317_20210721T050443_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_20210721T050955_20210721T051257_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_20210721T064332_20210721T064633_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_20210721T064858_20210721T065413_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_20210721T073957_20210721T074400_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_20210721T082336_20210721T082610_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_20210721T091847_20210721T092002_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_20210721T092156_20210721T092433_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_20210721T095837_20210721T100439_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_20210721T105813_20210721T110032_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_20210721T110113_20210721T110255_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_GOPN_2_20210721T114055_20210721T114241_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_20210721T123746_20210721T124227_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_20210721T132034_20210721T132209_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_20210721T132914_20210721T133201_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_20210721T150021_20210721T150409_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_20210721T153922_20210721T154052_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_20210721T155044_20210721T155133_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_20210721T164000_20210721T164315_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_20210721T164827_20210721T164947_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_20210721T173055_20210721T173133_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210721T190639_20210721T190903_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_20210721T190948_20210721T191108_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_20210721T204404_20210721T204820_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

CS_OFFL_SIR_GOPN_2_20210721T204901_20210721T204939_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_20210721T204943_20210721T205019_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_20210721T214310_20210721T214546_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_20210721T222448_20210721T222914_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_20210721T232224_20210721T232549_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_20210721T005743_20210721T010717_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_20210721T023449_20210721T024225_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_20210721T041400_20210721T042046_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_20210721T042046_20210721T042316_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20210721T055236_20210721T055946_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_20210721T055946_20210721T060200_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_20210721T073232_20210721T073342_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20210721T073413_20210721T073842_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_20210721T073842_20210721T073957_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_20210721T091208_20210721T091714_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_20210721T091714_20210721T091847_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_20210721T105207_20210721T105812_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_20210721T122928_20210721T123156_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_20210721T123334_20210721T123745_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_20210721T141122_20210721T141828_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_20210721T155134_20210721T155922_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_20210721T173133_20210721T173955_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_20210721T191108_20210721T191844_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_20210721T200216_20210721T200221_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20210721T205019_20210721T205541_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_20210721T214546_20210721T214753_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210721T222915_20210721T223308_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_20210721T223308_20210721T223626_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210721T010919_20210721T011437_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20210721T220736_20210721T222012_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (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.

Number of products with errors: 90		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210720T234106_20210721T000217_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_20210721T000729_20210721T001112_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_20210721T001823_20210721T004611_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_20210721T011524_20210721T011545_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_20210721T011747_20210721T014207_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_20210721T014512_20210721T015027_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_20210721T015033_20210721T015400_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_20210721T015756_20210721T023043_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_20210721T024401_20210721T025041_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_20210721T030335_20210721T031218_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_20210721T031703_20210721T032131_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_20210721T032513_20210721T033101_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_20210721T033813_20210721T041030_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_20210721T042316_20210721T042441_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_20210721T044601_20210721T044751_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_20210721T044920_20210721T045933_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_20210721T050443_20210721T050955_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_20210721T051650_20210721T053807_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_20210721T054051_20210721T055235_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_20210721T060200_20210721T060416_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_20210721T061142_20210721T061314_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_20210721T062049_20210721T063921_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_20210721T064633_20210721T064858_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_20210721T065625_20210721T073232_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_20210721T074425_20210721T080355_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_20210721T080411_20210721T081658_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.

CE OFFL BIR COME 2 2010/27/10405 (2010/27/10405) COME ARREST (1920 ARREST (1920 ARREST (1920 ARREST)) COME ARREST (1920 ARREST (1920 ARREST (1920 ARREST)) COME ARREST (1920 ARREST (1920 ARREST)) COME ARREST (1920 ARREST (1920 ARREST (1920 ARREST (1920 ARREST)) COME ARREST (1920 A	CS_OFFL_SIR_GOPM_2_20210721T082950_20210721T083309_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_OFF_SR_GOPM_2_X2CF271190219_201921190219_	CS_OFFL_SIR_GOPM_2_20210721T083535_20210721T085030_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
December (2019)   Section (2019)   Sec	CS_OFFL_SIR_GOPM_2_20210721T085233_20210721T090218_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SR_COM_2_2010721T10040_2010721T10070_001  CR_OFF_SR_COM_2_2010721T10074_2010721T10070_001  CR_OFF_SR_COM_2_2010721T10074_20107072T10070_001  CR_OFF_SR_COM_2_201072T110074_201072T110070_001  CR_OFF_SR_COM_2_201072T110077_001  CR_OFF_SR_COM_2_201072T1100752_201072T11000	CS_OFFL_SIR_GOPM_2_20210721T092002_20210721T092156_C001		
So. OFT. SIR. GOPM. 2. 20210721T100459_20210721T102010_COD  CS. OFT. SIR. GOPM. 2. 20210721T10156_20210721T102010_COD  CS. OFT. SIR. GOPM. 2. 20210721T10156_20210721T102010_COD  Altered Range and Basksocater Clustry.  CS. OFT. SIR. GOPM. 2. 20210721T11024_20210721T110210_COD  CS. OFT. SIR. GOPM. 2. 20210721T11024_20210721T110210_COD  CS. OFT. SIR. GOPM. 2. 20210721T11024_20210721T110210_COD  CS. OFT. SIR. GOPM. 2. 20210721T11024_20210721T110201_COD  CS. OFT. SIR. GOPM. 2. 20210721T11024_20210721T110201_COD  CS. OFT. SIR. GOPM. 2. 20210721T10202_2010721T10207_COD  CS. OFT. SIR. GOPM. 2. 20210721T10202_2010721T10207_COD  CS. OFT. SIR. GOPM. 2. 20210721T10207_COD	CS_OFFL_SIR_GOPM_2_20210721T092433_20210721T094114_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seg. OFFL_SIR_GOPAL_2.0210721T191089_0010  Open Pillinete Rispus_SSIA_SWI and baskcoater Quality Rispus and Education Country and Education Country (Country Country C	CS_OFFL_SIR_GOPM_2_20210721T100440_20210721T100730_C001		
DB_OFFL_SRR_OGPM_2_20219721T19098_20219721T19091 COOR Affinition Range_SSM_SWM_swm_and backscatter Quality Flags have been self- common self-  common self- common self-  comm	CS_OFFL_SIR_GOPM_2_20210721T100741_20210721T101211_C001		
and Backscatter (Quality), COCS Affirmed: Range and Backscatter (Quality) Flags have been active or on one recover.  CS_OFFL_SIR_OFFM_2_82210721T14242_20210721T1550001  CS_OFFL_SIR_OFFM_2_82210721T14242_20210721T12057_C001  CS_OFFL_SIR_OFFM_2_82210721T15432_20210721T12057_C001  CS_OFFL_SIR_OFFM_2_82210721T15432_20210721T12057_C001  CS_OFFL_SIR_OFFM_2_82210721T15432_20210721T12057_C001  CS_OFFL_SIR_OFFM_2_82210721T122221_20210721T12057_C001  CS_OFFL_SIR_OFFM_2_82210721T122221_20210721T12227_C001  CS_OFFL_SIR_OFFM_2_82210721T122221_20210721T12227_C001  CS_OFFL_SIR_OFFM_2_82210721T122221_20210721T12227_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122231_C001  CS_OFFL_SIR_OFFM_2_82210721T122332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001  CS_OFFL_SIR_OFFM_2_82210721T13233_C001  CS_OFFL_SIR_OFFM_2_82210721T132332_C001	CS_OFFL_SIR_GOPM_2_20210721T101506_20210721T102858_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Second   S	CS_OFFL_SIR_GOPM_2_20210721T111604_20210721T113910_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCG Allimeter Range and Backscaater Quality Flags have been Allimeter Range and Backscaater Quality CoCG Allimeter Range and Backscaater Quality CoCG Allimeter Range and Backscaater Quality Flags have been and Backscaater Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_202107211122497_202107211124690_200107211131811_C001  CS_OFFL_SIR_GOPM_2_202107211132945_202107211132914_C001  Backscaater Range All Stackscaater Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_202107211132946_202107211132914_C001  Backscaater Range All Stackscaater Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_202107211132946_202107211132914_C001  CS_OFFL_SIR_GOPM_2_20210721113399_202107211140000_C001  CS_OFFL_SIR_GOPM_2_20210721113399_202107211140000_C001  CS_OFFL_SIR_GOPM_2_202107211140000_C001  CS_OFFL_SIR_GOPM_2_202107211140000_2001  CS_OFFL_SIR_GOPM_2_202107211140000	CS_OFFL_SIR_GOPM_2_20210721T114242_20210721T115115_C001		
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to the Cocgo Altimeter Range and Backscatter Quality Flags have been extended to	CS_OFFL_SIR_GOPM_2_20210721T115438_20210721T121057_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscater Quality CS_OFFL_SIR_GOPM_2_20210721T126938_20210721T13811_C001  Backscater Quality, SWH and Backscater Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T132466_20210721T132914_C001  CS_OFFL_SIR_GOPM_2_20210721T132466_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T133359_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T133359_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140032_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140032_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140032_20210721T140038_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T140038_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T145028_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T140000_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T140000_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T140000_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T150005_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T150000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_20210721T150000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T150000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T150000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T150000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T160000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T160000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T160000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_2010721T160000_C001  CS_OFFL_SIR_GOPM_2_20210721T160050_	CS_OFFL_SIR_GOPM_2_20210721T122921_20210721T122927_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210721T132598_20210721T132914_C001  Allmeter Range and Backscatter Quality, COCG Backscatter Quality, COCG Backscatter Quality, COCG Backscatter Quality, COCG Allmeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T13259_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140030_20210721T140000_C001  CS_OFFL_SIR_GOPM_2_20210721T140030_20210721T140030_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T140230_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T145080_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T150509_C001  CS_OFFL_SIR_GOPM_2_20210721T150509_20210721T150509_C001  CS_OFFL_SIR_GOPM_2_20210721T150509_20210721T150509_C001  CS_OFFL_SIR_GOPM_2_20210721T164857_20210721T150509_C001  CS_OFFL_SIR_GOPM_2_20210721T164857_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T16509_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20	CS_OFFL_SIR_GOPM_2_20210721T124437_20210721T124840_C001		
Backscatter Quality  Cs_OFFL_SIR_GOPM_2_20210721T133359_20210721T140000_C001  Cs_OFFL_SIR_GOPM_2_20210721T140003_20210721T140036_C001  Cs_OFFL_SIR_GOPM_2_20210721T140036_20210721T140238_C001  Cs_OFFL_SIR_GOPM_2_20210721T140038_20210721T140238_C001  Cs_OFFL_SIR_GOPM_2_20210721T140038_20210721T140238_C001  Cs_OFFL_SIR_GOPM_2_20210721T140038_20210721T140038_20010721T140038_20010721T1400009  Cs_OFFL_SIR_GOPM_2_20210721T140009_20210721T1400009  Cs_OFFL_SIR_GOPM_2_20210721T140009_20210721T1400009  Cs_OFFL_SIR_GOPM_2_20210721T140009_20210721T150935_C001  Cs_OFFL_SIR_GOPM_2_20210721T150409_20210721T150009  Cs_OFFL_SIR_GOPM_2_20210721T150309_C001  Cs_OFFL_SIR_GOPM_2_20210721T150309_C001  Cs_OFFL_SIR_GOPM_2_20210721T150009  Cs_OFFL_SIR_GOPM_2_20210721T164309_C001  Cs_OFFL_SIR_GOPM_2_20210721T164309_C001	CS_OFFL_SIR_GOPM_2_20210721T125038_20210721T131811_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T140003_20210721T140238_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T141122_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T141122_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T1415026_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T145628_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T150505_C001  CS_OFFL_SIR_GOPM_2_20210721T160556_20210721T160500_C001  CS_OFFL_SIR_GOPM_2_20210721T160556_20210721T160500_C001  CS_OFFL_SIR_GOPM_2_20210721T160558_20210721T160500_C001  CS_OFFL_SIR_GOPM_2_20210721T160558_20210721T170000_C001  CS_OFFL_SIR_GOPM_2_20210721T160558_20210721T170000_C001  CS_OFFL_SIR_GOPM_2_20210721T160558_20210721T1700000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20210721T132456_20210721T132914_C001		
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T141122_C001  CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T145628_C001  CS_OFFL_SIR_GOPM_2_20210721T142542_20210721T145628_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150032_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150032_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150032_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150032_C001  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150032_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T16009_C0010721T170009_	CS_OFFL_SIR_GOPM_2_20210721T133359_20210721T140000_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T142542_20210721T145628_C001  CS_OFFL_SIR_GOPM_2_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T15153_20210721T151736_C001  CS_OFFL_SIR_GOPM_2_20210721T15153_20210721T151736_C001  CS_OFFL_SIR_GOPM_2_20210721T154857_20210721T155032_C001  CS_OFFL_SIR_GOPM_2_20210721T154857_20210721T155032_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_2010721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T160505_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T16055_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_C001  CS_OFFL_SIR_GOPM_2_20210721T170505_C001  CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20210721T140003_20210721T140238_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001  CS_OFFL_SIR_GOPM_2_20210721T151253_20210721T151736_C001  CS_OFFL_SIR_GOPM_2_20210721T151253_20210721T151736_C001  CS_OFFL_SIR_GOPM_2_20210721T154857_20210721T15032_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T164827_C001  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T164827_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C	CS_OFFL_SIR_GOPM_2_20210721T140528_20210721T141122_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210721T151253_20210721T151736_C001  CS_OFFL_SIR_GOPM_2_20210721T151253_20210721T151736_C001  CS_OFFL_SIR_GOPM_2_20210721T154857_20210721T155032_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160056_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T160056_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T16009_C001  CS_OFFL_SIR_GOPM_2_20210721T170009_C001  CS_OFFL_SIR_GOPM_2_20210721T170009_C001  CS_OFFL_SIR_GOPM_2_20210721T170009_C001  CS_OFFL_SIR_GOPM_2_20210721T170000_C001  CS_OFFL_SIR_GOPM_2_20210721T1700000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20210721T142542_20210721T145628_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T154857_20210721T155032_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T163609_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172836_C001  CS_O	CS_OFFL_SIR_GOPM_2_20210721T150409_20210721T150955_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T164827_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimet	CS_OFFL_SIR_GOPM_2_20210721T151253_20210721T151736_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T164827_C001  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172936_C001  CS_OFFL_SIR_GOPM_2_20210721T172905_20210721T172936_C001  CS_OFFL_SIR_GOPM_2_20210721T172905_20210721T172936_C001	CS_OFFL_SIR_GOPM_2_20210721T154857_20210721T155032_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172859_C001  CS_OFFL_SIR_GOPM_2_20210721T172805_20210721T172936_C001  CS_OFFL_SIR_GOPM_2_20210721T172905_20210721T172936_C001  CS_OFFL_SIR_GOPM_2_20210721T17	CS_OFFL_SIR_GOPM_2_20210721T160256_20210721T163609_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210721T1765258_20210721T170938_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter	CS_OFFL_SIR_GOPM_2_20210721T164315_20210721T164827_C001		
CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags and	CS_OFFL_SIR_GOPM_2_20210721T165258_20210721T170938_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210721T172905_20210721T172936_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20210721T172801_20210721T172859_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20210721T172905_20210721T172936_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20210721T173955_20210721T181014_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_20210721T181024_20210721T181512_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_20210721T182127_20210721T182315_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_20210721T182322_20210721T182735_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_20210721T183225_20210721T185702_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_20210721T185832_20210721T190516_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_20210721T190516_20210721T190619_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_20210721T190903_20210721T190948_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_20210721T191845_20210721T192457_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_20210721T192505_20210721T193725_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_20210721T193731_20210721T193958_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_20210721T194850_20210721T195427_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_20210721T195653_20210721T200215_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_20210721T201323_20210721T202548_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_20210721T202712_20210721T204403_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_20210721T204820_20210721T204901_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_20210721T210543_20210721T211649_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_20210721T212140_20210721T213323_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_20210721T213620_20210721T214114_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_20210721T214152_20210721T214309_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_20210721T215018_20210721T215420_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_20210721T220736_20210721T222012_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_20210721T225801_20210721T231220_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_20210721T231556_20210721T232029_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_20210721T232032_20210721T232045_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_20210721T232106_20210721T232224_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_20210721T232810_20210721T235021_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_20210721T235025_20210721T235339_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_20210721T010755_20210721T010919_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_20210721T153034_20210721T153212_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_20210721T231401_20210721T231556_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_20210721T023449_20210721T024225_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_20210721T145628_20210721T150020_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_20210721T153755_20210721T153922_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_20210721T195428_20210721T195525_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_20210721T200216_20210721T200221_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_20210721T224112_20210721T224150_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	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.

81

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20210721T000413_20210721T000729_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_20210721T004611_20210721T004840_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_20210721T010755_20210721T010919_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_20210721T011658_20210721T011747_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_20210721T015400_20210721T015525_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_20210721T041151_20210721T041400_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_20210721T043109_20210721T043154_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_20210721T044023_20210721T044208_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_20210721T050955_20210721T051257_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_20210721T062008_20210721T062049_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_20210721T064332_20210721T064633_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_20210721T064858_20210721T065413_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_20210721T073957_20210721T074400_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_20210721T090219_20210721T090538_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_20210721T091847_20210721T092002_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_20210721T092156_20210721T092433_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one
60_011E_0IIX_0011X_2_202101211002130_202101211002430_0001	OCOG Backscatter Quality	or more records.
CS_OFFL_SIR_GOPN_2_20210721T095837_20210721T100439_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_20210721T101212_20210721T101354_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_20210721T124315_20210721T124437_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_20210721T132914_20210721T133201_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_20210721T142511_20210721T142542_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_20210721T150021_20210721T150409_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_20210721T152705_20210721T153017_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_20210721T154125_20210721T154148_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_20210721T154559_20210721T154721_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_20210721T154813_20210721T154857_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_20210721T155044_20210721T155133_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_20210721T164000_20210721T164315_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_20210721T164827_20210721T164947_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_20210721T170939_20210721T171207_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_20210721T181717_20210721T182126_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_20210721T190639_20210721T190903_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_20210721T190948_20210721T191108_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_20210721T195525_20210721T195653_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_20210721T200448_20210721T200633_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_20210721T204404_20210721T204820_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_20210721T210323_20210721T210543_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_20210721T220150_20210721T220716_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_20210721T222448_20210721T222914_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_20210721T232224_20210721T232549_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_20210721T001634_20210721T001823_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_20210721T005743_20210721T010717_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_20210721T032131_20210721T032348_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_20210721T033417_20210721T033813_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_20210721T042046_20210721T042316_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_20210721T045933_20210721T050317_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_20210721T051257_20210721T051649_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_20210721T060416_20210721T061142_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_20210721T063921_20210721T064332_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_20210721T081659_20210721T082336_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_20210721T091208_20210721T091714_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_20210721T094114_20210721T094224_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_20210721T095306_20210721T095352_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_20210721T103433_20210721T103748_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_20210721T110346_20210721T110607_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_20210721T111320_20210721T111441_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_20210721T113910_20210721T114055_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_20210721T131811_20210721T132034_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_20210721T145628_20210721T150020_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_20210721T151112_20210721T151252_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_20210721T151736_20210721T152245_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_20210721T154510_20210721T154558_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_20210721T163610_20210721T163959_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_20210721T164947_20210721T165258_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_20210721T172207_20210721T172309_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_20210721T172309_20210721T172801_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_20210721T173133_20210721T173955_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_20210721T181512_20210721T181717_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_20210721T182845_20210721T183225_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_20210721T191108_20210721T191844_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_20210721T193958_20210721T194008_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_20210721T194810_20210721T194850_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH 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_20210721T205611_20210721T205745_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH 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_20210721T222247_20210721T222354_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_20210721T223308_20210721T223626_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_20210721T224956_20210721T225801_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_20210721T231221_20210721T231400_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.
	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_20210721T235339_20210721T235616_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)

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

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

Number of products with errors:

### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 55

## 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: 149

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

### 6.1 P2P Product Format Check

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

Number of products with errors:

### 6.2 P2P Product Header Analysis

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

Number of products with errors:

### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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.

See   See   Got   2. 2010/21/10105   2011/21/101000   2	Product	Test Failed	Description
Topography (s)  Topography (s)	CS_OFFL_SIR_GOP_2_20210721T001125_20210721T010102_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
Special Spring Code   2,000 (1971) (1990)	CS_OFFL_SIR_GOP_2_20210721T010102_20210721T015040_C001		
Topography (1)  Soft—SiR_COP_2_826707217084684_2021707217084694_0001  Many Description (1) Ma	CS_OFFL_SIR_GOP_2_20210721T015040_20210721T024017_C001		
Tooggaphy (1)  Tooggaphy (2)  Tooggaphy (3)  Tooggaphy (4)  Meen Des Duffor (7), Meen Dynamic Tooggaphy (2)  Meen Des Duffor (7), Meen Dynamic Tooggaphy (2)  Meen Des Duffor (7), Meen Dynamic Tooggaphy (3)  Meen Des Duffor (7), Meen Dynamic Tooggaphy (3)  Meen Des Duffor (7), Meen Dynamic Tooggaphy (4)  Meen Des Duffor (7), Meen	CS_OFFL_SIR_GOP_2_20210721T024017_20210721T032955_C001		
Topography (1)  Topography (1)	CS_OFFL_SIR_GOP_220210721T032955_20210721T041931_C001		
Topography (1)  Topography (1)	CS_OFFL_SIR_GOP_220210721T041931_20210721T050910_C001		
Macro Sea Surface (1), Mean Dynamic Topography (1). Topography (1), Total Concentro Concentration (1), the fact decounting of the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting to the Mean Dynamic Topography (1), Total Concentro Concentration (1), the fact decounting Concentration (1), the fa	CS_OFFL_SIR_GOP_220210721T050910_20210721T055846_C001		
Sp. OFFL. SIR, GOP 2 20210721T064824 20210721T03800_C001  Topography (1) To 2d Geocentic Coess Table highly for the Coess Table highly for the Coess Table highly for the Coess Table highly for or or one seconds.  Sp. OFFL. SIR, GOP 2 20210721T073800 20210721T08739, C001  Sp. OFFL. SIR, GOP 2 20210721T08739, 20210721T09715, C001  Sp. OFFL. SIR, GOP 2 20210721T08739, 20210721T09715, C001  Sp. OFFL. SIR, GOP 2 20210721T08739, 20210721T09530, C001  Sp. OFFL. SIR, GOP 2 20210721T08739, 20210721T09530, C001  Sp. OFFL. SIR, GOP 2 20210721T09719, 20210721T09530, C001  Sp. OFFL. SIR, GOP 2 20210721T09719, 20210721T109530, C001  Sp. OFFL. SIR, GOP 2 20210721T109530, 20210721T146800, C001  Sp. OFFL. SIR, GOP 2 20210721T146800, 20210721T146800, C001  Sp. OFFL. SIR, GOP 2 20210721T169047, 20210721T169047, C001  Sp. OFFL. SIR, GOP 2 20210721T169047, 20210721T169047, C001  Sp. OFFL. SIR, G	CS_OFFL_SIR_GOP_220210721T055846_20210721T064824_C001		
Topography (1). Total Geoceanic Cocean Tide (FS), New Equalitation Long Period Cocean Tide Period (FS), New Equalitation Long Period Cocean Tide Period (FS), New Equalitati	CS_OFFL_SIR_GOP_220210721T064824_20210721T073800_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
Topography (1) Topography (1) Topography (2) Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (3) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (3) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (4) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography (4) There is an error with the MSS height (edution 1) and the Mean Dynamic Topography he	CS_OFFL_SIR_GOP_220210721T073800_20210721T082739_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
SOURCE SIR GOP 2_20210721T100653_20210721T106630_C001  Topography (1) Total Geocentric Ocean Ticke (FeS), Nen-Equilibrum Long Period Ocean Ticke height (Soution 2) and the Nen-equilibrum Long Period Ocean Ticke height (Soution 2) and the Nen-Equilibrum Long Period Ocean Ticke height (Soution 2) and the Mean Dynamic Topography (1) Total Geocentric Ocean Ticke (GOT) Total Geocentric Ocean Ticke (GOT) Total Geocentric Ocean Ticke is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Total Geocentric Ocean Ticke is an error with the MSS height (solution 1) and the Total Geocentric Ocean Ticke (GOT) Total Geocentric Ocean Ticke is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) (Soution 2) and the Mea	CS_OFFL_SIR_GOP_2_20210721T082739_20210721T091715_C001		
Topography (1)  Topography (1)	CS_OFFL_SIR_GOP_220210721T091715_20210721T100653_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
Topography (1) Total Geocentric Ocean Tide Topography (1) Total Geocentric Ocean Tide Todio (207)  Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) Total Geocentric Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topo	CS_OFFL_SIR_GOP_220210721T100653_20210721T105630_C001		Topography height (solution 1) for one or more records
Topography (1) Topography (e) Including 1) and the Mean Dynamic Topography (e) Including 2) and the Including 1 and the Mean Dynamic Topography (e) Including 1) and the Mean Dynamic Topography (e) Including 1) and the Mean Dynamic Topography (e) Including 1) and the Mean Dynamic To	CS_OFFL_SIR_GOP_220210721T105630_20210721T114608_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
Topography (1) Topography (2) Topography height (solution 1) for one or more records Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (2) Topography (3) Topography (4) Topography (4) Topography (5) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) To	CS_OFFL_SIR_GOP_220210721T114608_20210721T123544_C001		
Topography (1) Topography (2) Topography (3) Topography (4) Topography (5) Topography (5) Topography (6) Topography (7) Topography (8) Topography (8) Topography (9) Topography (9) Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1)	CS_OFFL_SIR_GOP_220210721T123544_20210721T132523_C001		
Topography (1) Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Total Geocentric Ocean Tride (EGNT). Total Geocentric Ocean Tride (EGNT). Total Geocentric Ocean Tride (EGNT). Total Geocentric Ocean Tride (GOT). Total Geocentric Ocean Tride Fight (1), Total Geocentric O	CS_OFFL_SIR_GOP_220210721T132523_20210721T141459_C001		
Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1), for total Geocentric Ocean Tide height (solution 1), and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 2), the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 2), the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (s	CS_OFFL_SIR_GOP_220210721T141459_20210721T150437_C001		
Topography (1)  Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2) feet an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solut	CS_OFFL_SIR_GOP_220210721T150437_20210721T155414_C001		
Topography (1)  Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) the Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1) the Total Geocentric Ocean Tide height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1) the Total Geocentric Ocean Tide height (solution 1), the Total Geocentric Ocean Tide height (solu	CS_OFFL_SIR_GOP_220210721T155414_20210721T164352_C001		
Topography (1) Topogr	CS_OFFL_SIR_GOP_220210721T164352_20210721T173328_C001		
Topography (1), Total Geocentric Ocean Tide (GOT), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Ocean Tide height (Solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography hei	CS_OFFL_SIR_GOP_220210721T173328_20210721T182307_C001	Topography (1)	Topography height (solution 1) for one or more records
Topography (1) Topography (2) Topography (3) Topography (4) Topography height (solution 1) for one or more records Topography (5) Topography (6) Topography (7) Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one o	CS_OFFL_SIR_GOP_220210721T182307_20210721T191243_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (Solution 1) for one or more records  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography height (Solution 1: GOT) for one or more records  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography height (Solution 1) for one or more records  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography height (Solution 1) and the Mean Dynamic Topography height (Solution 2: FES) and the Non-equilibrium Long Period Ocean Tide (Solution 2: FES) and the Mean Dynamic Topography height (Solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (Solution 1) and the Me	CS_OFFL_SIR_GOP_220210721T191243_20210721T200221_C001	Topography (1)	Topography height (solution 1) for one or more records
Topography (1)  Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT)  CS_OFFL_SIR_GOP_2_20210721T223112_20210721T232051_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solutio	CS_OFFL_SIR_GOP_220210721T200221_20210721T205158_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
Topography (1), Total Geocentric Ocean Tide (GOT)  Topography (2), Total Geocentric Ocean Tide (GOT)  Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (a), Mean Dynamic Topography (b) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean	CS_OFFL_SIR_GOP_220210721T205158_20210721T214136_C001	Topography (1)	Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records  CS_OFFL_SIR_GOP_2_202107211232151_202107211232051_C001  Topography (1) Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOP_220210721T214136_20210721T223112_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
	CS_OFFL_SIR_GOP_220210721T223112_20210721T232051_C001		
	CS_OFFL_SIR_GOP_220210721T232051_20210722T001027_C002		

# 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

2

		_
CS_OFFL_SIR_GOP_2_20210721T010102_20210721T015040_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220210721T214136_20210721T223112_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 6.6 P2P Measurement Quality Flag Check

### P2P Quality Flags (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.

Number of products with errors:

### 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:

# 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: