

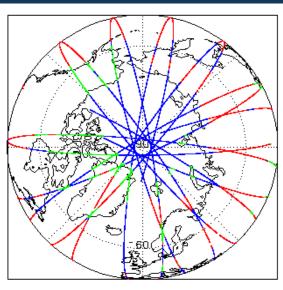
1. Overview

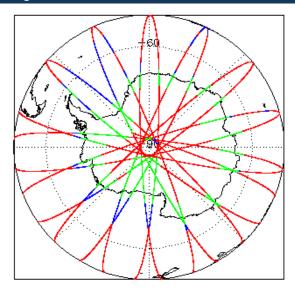
Report Production:	24-Mar-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

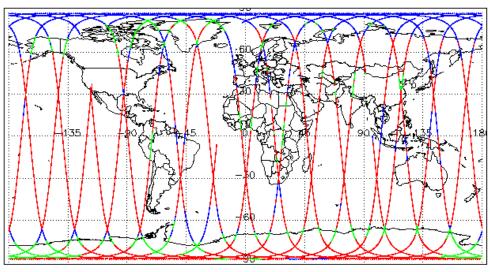
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instrument News	
20-Feb-2020	None
21-Feb-2020	SIRAL unavailability on 21-Feb-2020 from 08:17:00 to 08:41:01 due to an unplanned platform anomaly.
22-Feb-2020	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors: 12

Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20200221T040950_20200221T041130_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200221T113444_20200221T113551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200221T131357_20200221T131943_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200221T194509_20200221T194744_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200221T230344_20200221T230423_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200220T235638_20200221T000335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200221T050213_20200221T050414_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200221T144508_20200221T144713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200221T162611_20200221T163616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200221T193620_20200221T193947_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200221T213635_20200221T214125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200221T225549_20200221T225712_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:

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200221T215430_20200221T215527_C001	IMean Dynamic Longgraphy (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200221T004938_20200221T005315_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_20200221T013107_20200221T013459_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_20200221T014008_20200221T014044_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_20200221T023049_20200221T023231_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_20200221T054645_20200221T055000_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_20200221T063800_20200221T063900_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_20200221T072542_20200221T072858_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_20200221T090016_20200221T090253_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_20200221T090446_20200221T091044_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_20200221T095533_20200221T095653_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_20200221T103825_20200221T104150_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_20200221T113444_20200221T113551_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_20200221T121747_20200221T121946_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_20200221T131357_20200221T131943_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_20200221T135719_20200221T135837_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_20200221T153639_20200221T153759_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_20200221T171628_20200221T171952_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_20200221T181512_20200221T181746_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_20200221T185530_20200221T185850_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_20200221T194509_20200221T194744_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200221T204253_20200221T204414_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_20200221T212542_20200221T212646_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_20200221T222003_20200221T222204_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_20200221T230423_20200221T230600_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_20200220T235638_20200221T000335_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_20200221T001715_20200221T002531_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_20200221T013459_20200221T014008_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_20200221T031222_20200221T032030_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_20200221T045106_20200221T045839_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_20200221T050213_20200221T050414_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_20200221T050751_20200221T050939_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_20200221T062611_20200221T063635_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20200221T063635_20200221T063759_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

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CS_OFFL_SIR_GOPR_2_20200221T080830_20200221T081700_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_20200221T094816_20200221T095421_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_20200221T095421_20200221T095533_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_20200221T103654_20200221T103825_C001	Mean Sea Surface (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_20200221T112801_20200221T112958_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_20200221T113009_20200221T113224_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_20200221T113224_20200221T113444_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_20200221T130820_20200221T131357_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_20200221T144912_20200221T145415_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_20200221T162611_20200221T163616_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_20200221T180628_20200221T181511_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_20200221T193620_20200221T193947_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_20200221T194745_20200221T195529_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_20200221T212646_20200221T213401_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_20200221T225718_20200221T230050_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20200221T230600_20200221T231248_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:

0

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

06

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200221T002531_20200221T004041_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_20200221T004305_20200221T004747_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_20200221T005350_20200221T012105_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_20200221T015458_20200221T021548_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_20200221T021638_20200221T022037_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_20200221T022322_20200221T022700_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_20200221T022723_20200221T023049_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_20200221T023310_20200221T030152_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_20200221T032958_20200221T033116_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_20200221T033355_20200221T035952_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_20200221T040119_20200221T040614_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_20200221T041257_20200221T044755_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_20200221T050048_20200221T050213_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_20200221T053305_20200221T053428_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_20200221T053627_20200221T053935_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_20200221T054117_20200221T054645_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_20200221T055214_20200221T062611_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_20200221T063939_20200221T064120_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_20200221T065857_20200221T071824_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_20200221T073104_20200221T080502_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_20200221T084101_20200221T085318_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_20200221T090253_20200221T090446_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_20200221T091120_20200221T092334_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_20200221T092451_20200221T092906_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_20200221T093347_20200221T094201_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_20200221T100103_20200221T101803_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_20200221T102543_20200221T103430_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_20200221T104450_20200221T104858_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_20200221T105034_20200221T110331_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_20200221T110448_20200221T110611_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_20200221T110812_20200221T111734_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_20200221T112402_20200221T112428_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_20200221T114551_20200221T115704_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_20200221T120228_20200221T121707_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.

DOWN ADMINISTRATION OF A DESCRIPTION OF	CS_OFFL_SIR_GOPM_2_20200221T121946_20200221T122800_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
December Control	CS_OFFL_SIR_GOPM_2_20200221T122957_20200221T124626_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. DFIL. SR. GOM 2. 2000021110009 2000021110009 Col.	CS_OFFL_SIR_GOPM_2_20200221T130132_20200221T130659_C001		
SO CREL SIR, DOPM 2 20202211149040 200002211192480 C001 COS CREL SIR, DOPM 2 202022211149010 200002211192480 C001 COS CREL SIR, DOPM 2 202022211149010 200002211192480 C001 COS CREL SIR, DOPM 2 202022211149010 200002211192480 C001 COS CREL SIR, DOPM 2 20202221114900 20000211192480 C001 COS CREL SIR, DOPM 2 2020222111900 2000021119280 C001 COS CR	CS_OFFL_SIR_GOPM_2_20200221T132900_20200221T133231_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Section County CSL_DRFL_SIR, GOPM_2_2000022111640612_common 2000_common 2000_	CS_OFFL_SIR_GOPM_2_20200221T133234_20200221T135609_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_CPFL_SIR_GOPM_2_20000211164014_2000021116406_C001 CB_CPFL_SIR_GOPM_2_20000211164014_2000021116406_C001 CB_CPFL_SIR_GOPM_2_20000211164014_2000021116406_C001 CB_CPFL_SIR_GOPM_2_20000211164014_2000021116406_C001 CB_CPFL_SIR_GOPM_2_20000211164014_2000021116406_C001 CB_CPFL_SIR_GOPM_2_20000211164014_2000021116406_C001 CB_CPFL_SIR_GOPM_2_20000211164014_20000211164015_C001 CB_CPFL_SIR_GOPM_2_20000211164014_20000211164016_C001 CB_CPFL_SIR_GOPM_2_20000211164016_20000211164016_C001 CB_CPFL_SIR_GOPM_2_20000211164016_20000211164016_C001 CB_CPFL_SIR_GOPM_2_20000211164016_20000211164016_C001 CB_CPFL_SIR_GOPM_2_20000211164016_20000211164016_C001 CB_CPFL_SIR_GOPM_2_20000211164016_C00000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20200221T140119_20200221T140631_C001		
CS_OFFL_SIR_COPM_2_20200221T190425_20200221T190467_C001 SOCIA Altinetic Range Audition, OCOCA Altinetic Range and Backscatter Quality Flags have been set for one no	CS_OFFL_SIR_GOPM_2_20200221T140910_20200221T143426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Caulity Cosen Affirmedr Range, SSHA, SWH and Backscatter Quality Flags have been self to come or more records. CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T162259_CO01 CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T162259_CO01 CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T162259_CO01 CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T162259_CO01 CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T162051_CO01 CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T17400.CO01 CS_OFFL_SIR_GOPM_2_202000221T162059_20200221T17400.CO01 CS_OFFL_SIR_GOPM_2_202000221T175006_202000221T17400.CO01 CS_OFFL_SIR_GOPM_2_202000221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_20200221T175006_2020022T175006_202002T175006_2020022T175006_20	CS_OFFL_SIR_GOPM_2_20200221T150623_20200221T153450_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGA Altimeter Range and Backscatter Quality Flags have been set from the Cognet Comment Country Flags and Section	CS_OFFL_SIR_GOPM_2_20200221T154044_20200221T154647_C001		
Backscatter Coasily CS_OFFL_SIR_GOPM_2_20200221T162442_20200221T162451_CDD1 CS_OFFL_SIR_GOPM_2_20200221T163662_2020022T172518_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1763662_2020022T1772518_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1763662_2020022T1773531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775531_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T1775534_2020022T1775534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_2020022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_CD0022T175534_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_CD0022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_CD0022T175554_CDD1 CS_OFFL_SIR_GOPM_2_2020022T175534_CD0022T175554_CDD1 CC_OCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or nor records. CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or nor records. CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or nor records. CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or nor records. CC_OCA Altimeter Range and	CS_OFFL_SIR_GOPM_2_20200221T154813_20200221T161625_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T163956_20200221T17400_C001 CS_OFFL_SIR_GOPM_2_20200221T175958_20200221T17309_C001 CS_OFFL_SIR_GOPM_2_20200221T172649_20200221T17309_C001 CS_OFFL_SIR_GOPM_2_20200221T172649_20200221T175090_C001 CS_OFFL_SIR_GOPM_2_20200221T175038_20200221T175090_C001 CS_OFFL_SIR_GOPM_2_20200221T175038_20200221T175090_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180528_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T180528_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T180528_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T180528_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T180534_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T180543_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T180543_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T180543_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T180543_C001 CCCCA Altimeter Range Cuality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more r	CS_OFFL_SIR_GOPM_2_20200221T162058_20200221T162258_C001		
CS_OFFL_SIR_GOPM_2_20200221T176396_20200221T172518_C001 CS_OFFL_SIR_GOPM_2_20200221T17952_20200221T172518_C001 CS_OFFL_SIR_GOPM_2_20200221T17952_20200221T17399_C001 CS_OFFL_SIR_GOPM_2_20200221T175538_20200221T175399_C001 CS_OFFL_SIR_GOPM_2_20200221T175538_20200221T175390_C001 CS_OFFL_SIR_GOPM_2_20200221T175339_C001 CS_OFFL_SIR_GOPM_2_20200221T175334_20200221T175900_C001 CS_OFFL_SIR_GOPM_2_20200221T175834_20200221T175900_C001 CS_OFFL_SIR_GOPM_2_20200221T175834_20200221T175900_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T182756_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T185556_C001 CS_OFFL_SIR_GOPM_2_20200221T180000_20200221T185556_C001 CS_OFFL_SIR_GOPM_2_20200221T180000_2020221T185556_C001 CS_OFFL_SIR_GOPM_2_20200221T180000_2020221T185556_C001 CS_OFFL_SIR_GOPM_2_20200221T180000_2020221T185556_C001 CS_OFFL_SIR_GOPM_2_20200221T180000_2020221T185556_C001 CS_OFFL_SIR_GOPM_2_20200221T180000_2020221T195453_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T195453_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T195453_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T195453_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T195543_C001 CS_OFFL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20200221T162442_20200221T162611_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200221T172849_20200221T173309_C001 CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175334_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175334_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175334_20200221T17500_C001 CS_OFFL_SIR_GOPM_2_20200221T18034_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T18034_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T18034_20200221T180534_C001 CS_OFFL_SIR_GOPM_2_20200221T18034_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T18034_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T18034_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T180412_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T180412_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T185534_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T185534_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T185534_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T185534_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T185534_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T1855354_C001 CCG_Altimeter Range Calculationate Country CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T180408_C001 CS_OFFL_SIR_GOPM_2_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T19057_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T19057_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T19057_20200221T19057_20010 CCG_Altimeter Range Calculationate Calculati	CS_OFFL_SIR_GOPM_2_20200221T163956_20200221T171400_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality (CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175331_C001 CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175300_C001 CS_OFFL_SIR_GOPM_2_20200221T175834_20200221T175900_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180534_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T195434_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T195434_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T195434_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T19543_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T19048_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190488_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190488_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190488_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190537_C001 CS_O	CS_OFFL_SIR_GOPM_2_20200221T171952_20200221T172518_C001		
Backscatter Quality GS_OFFL_SIR_GOPM_2_20200221T18034_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T180534_C001 CS_OFFL_SIR_GOPM_2_20200221T180412_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T180412_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T180541_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T18057_20200221T180408_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190546_20200221T190553_C001 CS_OFFL_SIR_GOPM_2_20200221T190546_20200221T190553_C001 CS_OFFL_SIR_GOPM_2_20200221T190546_20200221T190553_C001 CS_OFFL_SIR_GOPM_2_20200221T190546_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T1905	CS_OFFL_SIR_GOPM_2_20200221T172649_20200221T173309_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_C001 CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T182756_C001 CS_OFFL_SIR_GOPM_2_20200221T180341_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185341_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190537_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190535_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T190333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T203333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T203333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T203333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T203333_C001 CS_OFFL_SIR_GOPM_2_20200221T2033412_20200221T203333_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T203333_C001 CS_OFFL_SIR_GOPM_2_20200221T2033412_20200221T203353_C001 CS_OFFL_SIR_GOPM_2_20200221T2033412_20200221T203353_C	CS_OFFL_SIR_GOPM_2_20200221T175238_20200221T175331_C001		
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T18930_2020221T182756_C001 CS_OFFL_SIR_GOPM_2_20200221T183041_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185041_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T195956_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CCS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CCS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPM_2_20200221T175834_20200221T175900_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T183041_20200221T185334_C001 CS_OFFL_SIR_GOPM_2_20200221T185041_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T195050_2000221T195956_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_202000221T190000_202000221T190000_202000221T190000_202000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20200221T180340_20200221T180628_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_20200221T185851_20200221T185956_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T203137_2001 CS_OFFL_SIR_GOPM_2_202000221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_202000221T190537_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_202000221T203412_20200221T203853_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203413_20200221T203853_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203413_20200221T203	CS_OFFL_SIR_GOPM_2_20200221T181930_20200221T182756_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203413_20200221T203853_C001	CS_OFFL_SIR_GOPM_2_20200221T183041_20200221T185334_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 Backscatter Quality Gor one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203413_20200221T203853_C001 CCGG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CCGG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20200221T185851_20200221T185956_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 CS_OFFL_SIR_GOPM_2_20200221T203413_20200221T203853_C001	CS_OFFL_SIR_GOPM_2_20200221T190000_20200221T190408_C001		
CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200221T203413_20200221T203853_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20200221T190537_20200221T192543_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records. CS_OFFL_SIR_GOPM_2_202002211203412_202002211203633_C001 Backscatter Quality for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20200221T195746_20200221T203137_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20200221T203412_20200221T203853_C001		
	CS_OFFL_SIR_GOPM_2_20200221T203913_20200221T204252_C001		

CS_OFFL_SIR_GOPM_2_20200221T204458_20200221T204709_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_20200221T204953_20200221T212122_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_20200221T212302_20200221T212542_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_20200221T214125_20200221T214834_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_20200221T215316_20200221T215427_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_20200221T215546_20200221T221100_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_20200221T221236_20200221T221752_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_20200221T221827_20200221T222003_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_20200221T222804_20200221T224130_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_20200221T224539_20200221T225548_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_20200221T232313_20200221T233335_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_20200221T233515_20200221T235009_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_20200221T235201_20200221T235702_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_20200221T235740_20200221T235841_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_20200221T004804_20200221T004809_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_20200221T113444_20200221T113551_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_20200221T125940_20200221T125954_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_20200221T140631_20200221T140910_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_20200221T171628_20200221T171952_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_20200221T014044_20200221T014228_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_20200221T050213_20200221T050414_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_20200221T094816_20200221T095421_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_20200221T131943_20200221T132205_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_20200221T135609_20200221T135719_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_20200221T221805_20200221T221810_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_20200221T225718_20200221T230050_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200221T013107_20200221T013459_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_20200221T014008_20200221T014044_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_20200221T014954_20200221T015125_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_20200221T022053_20200221T022322_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_20200221T023049_20200221T023231_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_20200221T035953_20200221T040119_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_20200221T044755_20200221T044909_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_20200221T051409_20200221T051514_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_20200221T054645_20200221T055000_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_20200221T064145_20200221T064306_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_20200221T065626_20200221T065857_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_20200221T071924_20200221T072038_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_20200221T072542_20200221T072858_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_20200221T090016_20200221T090253_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_20200221T090446_20200221T091044_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_20200221T095533_20200221T095653_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_20200221T103523_20200221T103654_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_20200221T103825_20200221T104150_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_20200221T104859_20200221T105034_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_20200221T111734_20200221T111941_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_20200221T113444_20200221T113551_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_20200221T113641_20200221T113736_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_20200221T113922_20200221T114028_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_20200221T115704_20200221T120227_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_20200221T121747_20200221T121946_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_20200221T131357_20200221T131943_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_20200221T153850_20200221T154044_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_20200221T163616_20200221T163956_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_20200221T172518_20200221T172635_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_20200221T174535_20200221T174555_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_20200221T181512_20200221T181746_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_20200221T181755_20200221T181851_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_20200221T190408_20200221T190531_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_20200221T192544_20200221T192910_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_20200221T194509_20200221T194744_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_20200221T203221_20200221T203412_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_20200221T212542_20200221T212646_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_20200221T232022_20200221T232313_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_20200221T001715_20200221T002531_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_20200221T031222_20200221T032030_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_20200221T032053_20200221T032247_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_20200221T045106_20200221T045839_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_20200221T045855_20200221T050048_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_20200221T062611_20200221T063635_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_20200221T063635_20200221T063759_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_20200221T063900_20200221T063939_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_20200221T064339_20200221T064556_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_20200221T080502_20200221T080713_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_20200221T080830_20200221T081700_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_20200221T085646_20200221T090016_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_20200221T094201_20200221T094502_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_20200221T094816_20200221T095421_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_20200221T095421_20200221T095533_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_20200221T110331_20200221T110448_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_20200221T110611_20200221T110811_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_20200221T113009_20200221T113224_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_20200221T113224_20200221T113444_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_20200221T130820_20200221T131357_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_20200221T131943_20200221T132205_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_20200221T144912_20200221T145415_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_20200221T162258_20200221T162442_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_20200221T162611_20200221T163616_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_20200221T175955_20200221T180236_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_20200221T180628_20200221T181511_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_20200221T193620_20200221T193947_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_20200221T193947_20200221T194509_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_20200221T194745_20200221T195529_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_20200221T212646_20200221T213401_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_20200221T214834_20200221T215316_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_20200221T224130_20200221T224344_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_20200221T225549_20200221T225712_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_20200221T225718_20200221T230050_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_20200221T230131_20200221T230344_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_20200221T230600_20200221T231248_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.

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:

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:

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

6.1 P2P Product Format Check

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

Number of products with errors:

0

137

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:

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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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200220T235831_20200221T004806_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220200221T004806_20200221T013744_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T013744_20200221T022720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T022720_20200221T031658_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T031658_20200221T040634_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T040634_20200221T045611_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T045611_20200221T054547_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T054547_20200221T063525_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200221T063525_20200221T072501_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T072501_20200221T081438_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220200221T081438_20200221T090414_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T090414_20200221T095352_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220200221T095352_20200221T104328_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200221T104328_20200221T113306_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T113306_20200221T122241_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

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CS_OFFL_SIR_GOP_220200221T122241_20200221T131219_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T131219_20200221T140155_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20200221T140155_20200221T145133_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T145133_20200221T154109_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T154109_20200221T163046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T163046_20200221T172022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T172022_20200221T181000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T181000_20200221T185936_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220200221T185936_20200221T194913_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200221T194913_20200221T203849_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T203849_20200221T212827_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200221T212827_20200221T221803_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220200221T221803_20200221T230741_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220200221T230741_20200221T235716_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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: 30

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: 2

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: 2

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 2

P2P Retracking Flags PLRM

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

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