

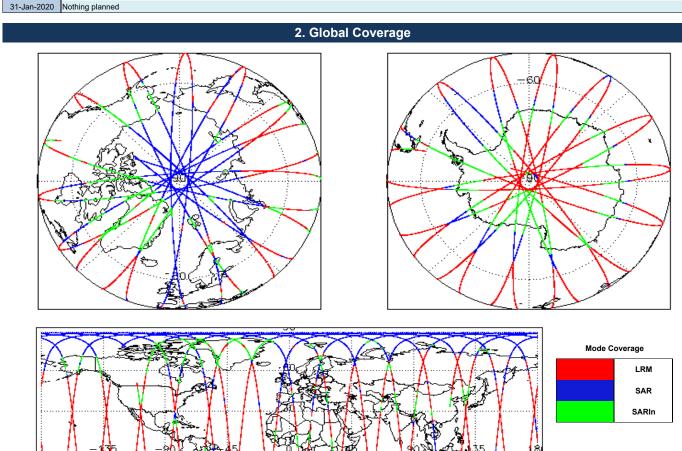
# **QA4EO Daily Report for GOP data:**

<u>30/01/2020</u>

an art Draduation.	03-Mar-2020	Check	L1 & L2	P2P
Report Production:	03-1011-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Crucest Occor Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Useu.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

1. Overview

Wission / Instru		Inent News
	29-Jan-2020	None
	30-Jan-2020	None



## 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).

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Number of products with errors:

0

For all products, a series of pre-defined checks are performed on the MPH and	I SPH in order to identify any incons	istencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1E DSARIn chains. A modification is required in the next release.	3 GOPR and GOPN products becau	se the I1b_processing_quality_hr field is not correctly configured in the OSAR an
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to cl	neck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indicates	any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurem	nent record. The bit value of this flag	indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR prod	ucts due to a configuration issue. T	nis is being investigated and will be updated in the next SW update.
Number of products with errors: 1		
Product	Test Failed	Description
CS OFFL SIR GOPM1B 20200130T022219 20200130T022246 C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more

### 4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200130T040028_20200130T042622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T001745_20200130T001933_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T002122_20200130T002337_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T012451_20200130T012705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T102238_20200130T102644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T134051_20200130T134311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T143354_20200130T143544_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T175232_20200130T175348_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T201329_20200130T201410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T215222_20200130T215342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200130T232649_20200130T233058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200130T005115_20200130T005254_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200130T133443_20200130T134051_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200130T224906_20200130T225557_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: 0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200130T035001_20200130T035041_C001	Iviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPM_2_20200130T151131_20200130T151156_0.001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution ar more records         CS_OFFL_SIR_GOPM_2_20200130T102122_20200130T101209_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution ar more records         CS_OFFL_SIR_GOPM_2_20200130T002122_20200130T002233T_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution are more records         CS_OFFL_SIR_GOPM_2_20200130T010755_20200130T012705_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution are more records         CS_OFFL_SIR_GOPN_2_20200130T015753_20200130T012705_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution are more records         CS_OFFL_SIR_GOPN_2_20200130T015753_20200130T0220205_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution are more records         CS_OFFL_SIR_GOPN_2_20200130T057134_20200130T025922_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution are records         CS_OFFL_SIR_GOPN_2_20200130T060783_20200130T060756_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution are records         CS_OFFL_SIR_GOPN_2_20200130T067543_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_S	Dynamic 1) for one
CS_OFFL_SIR_GOPN_2_20200130T002132_20200130T002337_C001         Mean See Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200130T010755_20200130T0107642_C001         Mean See Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200130T010755_20200130T0120205_C001         Mean See Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200130T0125719_20200130T022502_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution or more records           CS_OFFL_SIR_GOPN_2_20200130T025719_20200130T025922_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution or more records           CS_OFFL_SIR_GOPN_2_20200130T051334_20200130T061753_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution or more records           CS_OFFL_SIR_GOPN_2_20200130T060548_20200130T060759_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) for one or more records           CS_OFFL_SIR_GOPN_2_20200130T060548_20200130T060759_C001         Mean Dynamic Topography (1)         There is an error with the Mas Dynamic Topography (solution or more records           CS_OFFL_SIR_GOPN_2_20200130T060548_20200130T074727_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records <td>1) for one</td>	1) for one
CS_OFFL_SIR_GOPN_2_20200130T002122_20200130T01002122_000130T01002237_0001       Topography (1)       Topography (1)       Topography (1)       Topography (1)       Topography (1)       Topography (1)       Topography (2)       Topogr	1) for one
US_OFFL_SIR_GOPN_2_202001301010755_202001301010745_202001301010745_202001301012705_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_202001301012753_202001301012705_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301025719_202001301025922_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301025719_202001301025922_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301051334_202001301051735_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301066634_202001301060759_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301061548_202001301061701_C001       Mean Sea Surface (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301075299_202001301074727_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_2020013010792618_2020013010792618_202001301092919_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_202001301092618_202001301092919_C001	, ,
CS_OFFL_SIR_GOPN_2_20200130T012/351_20200130T020205_C001       Mean Dynamic Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T025719_20200130T025922_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T025719_20200130T025922_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T051334_20200130T061735_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T06034_20200130T060759_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001       Mean Sea Surface (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T076239_20200130T074727_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution or more records       There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T075239_20200130T075541_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T092618_20200130T092619_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	
CS_OFFL_SIR_GOPN_2_202001301025719_20200130102205_C001       Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_202001301025719_202001301025922_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301066634_202001301060759_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301061548_202001301060759_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301061548_202001301061701_C001       Mean Sea Surface (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301074601_202001301074727_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301075239_202001301075541_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301092618_202001301092919_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_202001301102238_202001301102644_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) and the Mean Topography (1)	
CS_OFFL_SIR_GOPN_2_20200130T025/19_20200130T02592_C001       Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_20200130T051334_20200130T051735_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T060634_20200130T060759_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001       Mean Sea Surface (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T074601_20200130T074727_C001       Mean Dynamic Topography (1)       There is an error with the Masn Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T075239_20200130T075541_C001       Mean Sea Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T092618_20200130T092919_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001       Mean Sea Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Topography height (solution 1). Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Price for on rore records         CS_OFFL_SIR_GOPN_2_20200130T110238_20200130T102644_C001       Mean Sea Surface (1). Mean Dynamic Topography height (solution 1)	) for one
CS_OFFL_SIR_GOPN_2_202001301051334_202001301051735_C001       Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_20200130T060634_20200130T060759_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001       Mean Sea Surface (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T074601_20200130T074727_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T075239_20200130T075541_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T093618_20200130T092919_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T093141_20200130T093657_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean 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 Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001       Mean Sea Surf	) for one
CS_OFFL_SIR_GOPN_2_202001301060634_202001301074727_C001       Mean Sea Surface (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_2020013010775239_2020013010775541_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_202001301092618_202001301092919_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301093141_202001301093657_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOC), Total Geocentric Ocean Tide (GOC), Total Geocentric Ocean Tide (Gocent Tide Ceocentric Ocean Tide (Gocent Tide Ceocentric Ocean Tide (SOCENTIA), Total Geocentric Ocean Tide (Gocentric Ocean Tide (SOCENTIA), Ca02001301110617_20200130110852_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Socentric Ocean Tide (SOCENTIA), Cancentric Ocean Tide (Gocentric Ocean Tide (Gocent	) for one
CS_OFFL_SIR_GOPN_2_20200130T074601_20200130T074727_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_20200130T075239_20200130T075541_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 2) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T092618_20200130T092919_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_20200130T093141_20200130T093657_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography (1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Topography (1), Total Geocentric Ocean Tide (GCT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (SC, Non-Equilibrium Long Period Ocean Tide (SC, Non-Equ	) for one
CS_OFFL_SIR_GOPN_2_202001301074601_202001301074727_C001       Mean Dynamic Topography (1)       or more records         CS_OFFL_SIR_GOPN_2_20200130T075239_20200130T075541_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T092618_20200130T092919_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T093141_20200130T093657_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T1102644_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ceean Tide         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Topography height (solution 1) for one or more records         Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Topography (1)         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic       <	e records
CS_OFFL_SIR_GOPN_2_2020013010/5239_2020013010/5334_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_202001301092618_202001301092919_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution or more records         CS_OFFL_SIR_GOPN_2_202001301093141_202001301093657_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_202001301102238_202001301102644_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (SOT), Nean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (SOT), Nean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T1102642_C001       Mean Sea	) for one
CS_OFFL_SIR_GOPN_2_20200130T093141_20200130T093657_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_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 Topography height (solution 1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T10238_20200130T102644_C001       Topography (1)       Topography (a)       Topography (b)         CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), 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), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	) for one
CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001       Topography (1), Total Geocentric Ocean Tide Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide       Interest an error with the MSS height (solution 1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide         CS_OFFL_SIR_GOPN_2_20200130T110617_20200130T110852_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surfac	Dynamic
CS_OFFL_SIR_GOPN_2_202001301110617_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110617_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110617_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110617_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110852_C001 Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_202001301110817_202001100110817_2	GOT), Total
	Dynamic
	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T120432_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T1204 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200130T120707_C001 CS_OFFL_SIR_GOPN_2_20200 CS_OFFL_SIR_GOPN_2_20200 CS_OFFL_SIR_GOPN_2_2020 CS_OFFL_SIR_GOPN_2_	de (FES)
CS_OFFL_SIR_GOPN_2_20200130T124118_20200130T124718_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution or more records	) for one
CS_OFFL_SIR_GOPN_2_20200130T134051_20200130T134311_C001 Mean Sea Surface (1), Mean Dynamic Topography (a) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T134349_20200130T134534_C001 Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-GOT and solution 2: FES) and the Non-equilibrium Long Period Equilibrium Long Period Ocean Tide	
CS_OFFL_SIR_GOPN_2_20200130T142334_20200130T142522_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T152025_20200130T152506_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T160312_20200130T160448_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution or more records	) for one
CS_OFFL_SIR_GOPN_2_20200130T174258_20200130T174646_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T182148_20200130T182328_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution or more records	) for one
CS_OFFL_SIR_GOPN_2_20200130T183316_20200130T183409_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution or more records	) for one
CS_OFFL_SIR_GOPN_2_20200130T192235_20200130T192551_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T193103_20200130T193224_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution or more records	) for one
CS_OFFL_SIR_GOPN_2_20200130T201329_20200130T201410_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	Dynamic
CS_OFFL_SIR_GOPN_2_20200130T214911_20200130T215130_C001 TG (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	
CS_OFFL_SIR_GOPN_2_20200130T215222_20200130T215342_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records	GOT), Total
CS_OFFL_SIR_GOPN_2_20200130T232649_20200130T233058_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Interesting Comparison of the Interesting Comparison of	GOT), Total riod Ocean

CS_OFFL_SIR_GOPN_2_20200130T233130_20200130T233252_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_20200130T002337_20200130T002508_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_20200130T002508_20200130T003021_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_20200130T020205_20200130T020727_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20200130T034027_20200130T035001_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_20200130T051736_20200130T052510_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_20200130T065641_20200130T070330_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_20200130T070330_20200130T070636_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_20200130T083515_20200130T084229_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_20200130T084229_20200130T084435_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_20200130T101511_20200130T101607_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_20200130T101656_20200130T102123_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_20200130T102123_20200130T102237_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_20200130T115456_20200130T115953_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_20200130T115953_20200130T120127_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_20200130T133443_20200130T134051_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_20200130T151613_20200130T152025_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_20200130T165329_20200130T170107_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_20200130T183409_20200130T184157_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_20200130T201410_20200130T202431_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_20200130T215342_20200130T220113_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_20200130T233253_20200130T233813_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:

tion
an error in the scaling of the L2 waveform for one or more records
-

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200130T000146_20200130T001302_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200130T005255_20200130T010726_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200130T010942_20200130T011442_C001	<b>S</b>	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	<b>S</b>	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20200130T012318_20200130T012450_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_20200130T012706_20200130T013711_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
CS_OFFL_SIR_GOPM_2_20200130T013947_20200130T014503_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_20200130T021548_20200130T021621_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_20200130T021625_20200130T021634_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_20200130T022353_20200130T024654_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_20200130T025017_20200130T025359_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_20200130T025421_20200130T025718_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_20200130T030013_20200130T032812_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_20200130T040028_20200130T042622_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_20200130T042759_20200130T043313_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_20200130T043319_20200130T043646_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_20200130T044023_20200130T051334_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_20200130T053359_20200130T053555_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_20200130T054833_20200130T055446_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_20200130T055949_20200130T060550_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_20200130T060759_20200130T061346_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_20200130T061938_20200130T065234_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_20200130T071218_20200130T071349_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_20200130T072849_20200130T073036_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_20200130T073134_20200130T074514_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_20200130T074727_20200130T075239_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_20200130T075820_20200130T082050_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_20200130T082334_20200130T083253_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_20200130T090330_20200130T092302_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_20200130T092919_20200130T093140_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_20200130T093832_20200130T101025_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_20200130T102728_20200130T104632_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_20200130T104653_20200130T105947_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_20200130T111229_20200130T111551_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_20200130T111724_20200130T113311_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_20200130T113514_20200130T114443_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_20200130T120708_20200130T120930_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_20200130T121140_20200130T122354_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_20200130T124019_20200130T124118_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_20200130T124718_20200130T125010_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_20200130T125021_20200130T125452_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_20200130T125701_20200130T131139_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_20200130T135009_20200130T135559_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_20200130T135843_20200130T142250_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_20200130T142522_20200130T143354_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_20200130T143621_20200130T150146_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_20200130T151131_20200130T151156_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_20200130T153359_20200130T160108_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_20200130T160735_20200130T161152_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200130T160735_20200130T161152_C001 CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001 CS_OFFL_SIR_GOPM_2_20200130T164245_20200130T164502_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001 CS_OFFL_SIR_GOPM_2_20200130T164245_20200130T164502_C001 CS_OFFL_SIR_GOPM_2_20200130T165301_20200130T165329_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001 CS_OFFL_SIR_GOPM_2_20200130T164245_20200130T164502_C001 CS_OFFL_SIR_GOPM_2_20200130T165301_20200130T165329_C001 CS_OFFL_SIR_GOPM_2_20200130T170814_20200130T174018_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001 CS_OFFL_SIR_GOPM_2_20200130T164245_20200130T164502_C001 CS_OFFL_SIR_GOPM_2_20200130T165301_20200130T165329_C001 CS_OFFL_SIR_GOPM_2_20200130T170814_20200130T174018_C001 CS_OFFL_SIR_GOPM_2_20200130T174647_20200130T175232_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter 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 and the OCOG Altimeter 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 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200130T161505_20200130T164232_C001 CS_OFFL_SIR_GOPM_2_20200130T164245_20200130T164502_C001 CS_OFFL_SIR_GOPM_2_20200130T165301_20200130T165329_C001 CS_OFFL_SIR_GOPM_2_20200130T170814_20200130T174018_C001 CS_OFFL_SIR_GOPM_2_20200130T174647_20200130T175232_C001 CS_OFFL_SIR_GOPM_2_20200130T175408_20200130T180012_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OcoG Altimeter Range, SSHA, SWH and Backscatter Quality OcoG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Cog Altimeter Range and Backscatter Quality Ocean Altimeter Range Quality, OCOG Cog Altimeter Ran	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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for 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 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter 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 OCOG Altimeter 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 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20200130T193300_20200130T195218_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_20200130T202432_20200130T205253_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_20200130T205304_20200130T205829_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_20200130T210557_20200130T211011_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_20200130T211207_20200130T213936_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_20200130T214106_20200130T214756_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_20200130T214756_20200130T214833_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_20200130T215131_20200130T215222_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_20200130T220741_20200130T221849_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_20200130T222005_20200130T222428_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_20200130T223106_20200130T223758_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_20200130T223928_20200130T224449_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_20200130T224508_20200130T224721_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_20200130T225558_20200130T230822_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_20200130T230950_20200130T231941_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_20200130T232017_20200130T232648_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_20200130T234050_20200130T234135_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_20200130T234831_20200130T235923_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_20200130T012451_20200130T012705_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_20200130T032858_20200130T033141_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_20200130T051334_20200130T051735_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_20200130T061548_20200130T061701_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_20200130T102238_20200130T102644_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_20200130T110617_20200130T110852_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_20200130T120128_20200130T120242_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_20200130T201329_20200130T201410_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_20200130T002508_20200130T003021_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_20200130T024655_20200130T024704_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200130T131625_20200130T132028_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_20200130T200445_20200130T200547_C001	0	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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CS_OFFL_SIR_GOPN_2_20200130T001745_20200130T001933_C001         Ccean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, CS_OFFL_SIR_GOPN_2_20200130T003833_20200130T004056_C001         The Ocean Altimeter Range, SSHA, SWH and the CCOG Altimeter Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T013711_20200130T013946_C001         OCCG Altimeter Range Quality PLRM, CCG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T013711_20200130T013946_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T015753_20200130T020205_C001         Occean Altimeter Range, SSHA, SWH and Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T020727_20200130T020751_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T024704_20200130T025017_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T024704_20200130T025017_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCCG Range and Backscatter Quality Flags have been set fo more records.           CS_OFFL_SIR_GOPN_2_20200130T061
CS_OFFL_SIR_GOPN_2_20200130T003835_20200130T004036_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200130T013711_20200130T013946_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200130T015753_20200130T020205_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200130T020727_20200130T020751_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatte
CS_OFFL_SIR_GOPN_2_202001301013711_202001301013946_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202001301015753_202001301020205_C001       Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_GOPN_2_202001301020727_202001301020751_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301024704_202001301025017_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301024704_202001301025017_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301032858_202001301033141_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301061548_202001301061701_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301061548_202001301061701_C001       Ocoan Altimeter Range ASHA, SWH and Backscatter Quality Flags have been set for more records.       The OCOG Range and Backscatter Quality Fla
CS_OFFL_SIR_GOPN_2_20200130T015753_20200130T020205_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality       The OCGA Attimeter Range and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPN_2_20200130T020727_20200130T020751_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCGG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_20200130T024704_20200130T025017_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_20200130T024704_20200130T025017_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_20200130T032858_20200130T033141_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_20200130T032858_20200130T033141_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, occof altimeter Range and Backscatter Quality PLRM, oc
CS_OFFL_SIR_GOPN_2_202001301020727_202001301020731_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202001301024704_202001301025017_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301032858_202001301033141_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301032858_202001301033141_C001       OCOG Altimeter Range, SSHA, SWH more records.       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_202001301061548_202001301061701_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T032858_20200130T033141_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200130T032858_20200130T033141_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for an advector of the set for a provide records.
CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_20200130T061701_C001 CS_OFFL_SIR_GOPN_2_200000 CS_OFFL_SIR_GOPN_2_2000000
CS_OFFL_SIR_GOPN_2_20200130T061548_20200130T061701_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG Altimeter Range
CS_OFFL_SIR_GOPN_2_20200130T070726_20200130T070813_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter QUALITA PLRM, OCOG Backscatter QUALITA PLRM, OC
CS_OFFL_SIR_GOPN_2_20200130T072306_20200130T072451_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T090152_20200130T090242_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COG Backscatter QUA
CS_OFFL_SIR_GOPN_2_20200130T092618_20200130T092919_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OC
CS_OFFL_SIR_GOPN_2_20200130T093141_20200130T093657_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T102238_20200130T102644_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality set for one or more records.
CS_OFFL_SIR_GOPN_2_20200130T114444_20200130T114815_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OC
CS_OFFL_SIR_GOPN_2_20200130T120128_20200130T120242_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T120432_20200130T120707_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T122354_20200130T122734_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T124118_20200130T124718_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.
CS_OFFL_SIR_GOPN_2_20200130T134051_20200130T134311_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 and the OCOG Altimeter Range and Backscatter Quality set for one or more records.
CS_OFFL_SIR_GOPN_2_20200130T134548_20200130T134624_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality set for one or more records.

CS_OFFL_SIR_GOPN_2_20200130T134846_20200130T135008_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_20200130T143354_20200130T143544_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_20200130T152553_20200130T152715_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_20200130T153115_20200130T153315_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_20200130T161152_20200130T161441_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_20200130T174258_20200130T174646_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_20200130T180921_20200130T181254_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_20200130T182148_20200130T182328_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_20200130T182835_20200130T182957_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_20200130T183316_20200130T183409_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_20200130T184359_20200130T184534_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_20200130T193103_20200130T193224_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_20200130T195218_20200130T195457_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_20200130T205951_20200130T210358_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_20200130T214911_20200130T215130_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_20200130T233130_20200130T233252_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_20200130T234553_20200130T234830_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_20200129T235912_20200130T000146_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_20200130T001302_20200130T001443_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_20200130T001542_20200130T001745_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_20200130T001934_20200130T002122_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_20200130T002508_20200130T003021_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_20200130T015441_20200130T015733_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_20200130T020205_20200130T020727_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_20200130T022247_20200130T022352_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_20200130T025922_20200130T030013_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_20200130T034027_20200130T035001_C001	Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRN, OCOG Attimeter 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_20200130T043812_20200130T044023_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_20200130T051736_20200130T052510_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_20200130T052545_20200130T053014_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_20200130T065641_20200130T070330_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_20200130T070330_20200130T070636_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_20200130T070840_20200130T070909_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_20200130T074514_20200130T074601_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_20200130T075542_20200130T075820_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_20200130T083253_20200130T083401_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_20200130T083515_20200130T084229_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_20200130T084229_20200130T084435_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_20200130T084658_20200130T085424_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_20200130T101025_20200130T101237_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_20200130T101656_20200130T102123_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_20200130T105947_20200130T110617_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_20200130T115456_20200130T115953_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_20200130T115953_20200130T120127_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_20200130T120930_20200130T121140_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_20200130T123650_20200130T123924_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_20200130T131139_20200130T131625_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_20200130T133443_20200130T134051_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_20200130T134311_20200130T134349_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_20200130T134624_20200130T134845_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_20200130T151613_20200130T152025_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_20200130T160108_20200130T160312_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_20200130T165329_20200130T170107_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_20200130T183409_20200130T184157_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.

Number of products with errors:	149		
Ocean Retracking Quality Flag (PLRM): Th			
L2 Retracking Flags (20Hz, PLRM CryoSat L2 data includes an ocean retracking	·	measurement record. The hit value of this flow	n indicates any problems when set
Number of products with errors:			
	currently set for products over land	a and sea ice, but this is to be expected. The r	number of products with this error flag set is given below.
CryoSat L2 data includes an ocean retracking		-	
L2 Retracking Flags (20Hz)			
5.8 L2 Ocean Retracking Quali	цу спеск		
Number of products with errors:	190	ישמטוט שיטי שטמ וטס, איווטו וא וט שב בגעפטופט.	
<ul> <li>&gt; 1Hz and 1Hz Ocean SSHA Quality Flags:</li> </ul>	• •		
L2 Quality Flags (1 Hz & 1Hz PLR Currently, there are several common flags		which are summarised below	
1 2 Quality Flags (1 Hz & 1Hz PI P	<b>M</b> )		1 
CS_OFFL_SIR_GOPR_2_20200130T233842	2_20200130T234008_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCG Altimeter Range, SSFA, SWH and Backscatter Quality Flags and the OCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		PLRM Ocean Altimeter Range, SSHA, SWH	set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPR_2_20200130T230822	2_20200130T230950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20200130T220241	1_20200130T220254_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_20200130T215342	2_20200130T220113_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_20200130T201410	0_20200130T202431_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_20200130T201041	1_20200130T201328_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_20200130T200445	5_20200130T200547_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_20200130T192004	4_20200130T192235_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_20200130T184318	8_20200130T184357_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 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.

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200129T233545_20200130T002520_C002		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_220200130T002520_20200130T011459_C001		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_220200130T011459_20200130T020433_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_0FFL_SIR_GOP_2_20200130T020433_20200130T025412_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
C3_0FFL_SIK_GOF_2_202001301020433_202001301023412_0001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOP_220200130T025412_20200130T034347_C001	Topography (1)	Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200130T034347_20200130T043326_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_20200130T043326_20200130T052301_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_20200130T052301_20200130T061240_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_20200130T061240_20200130T070214_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_20200130T070214_20200130T075153_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_20200130T075153_20200130T084128_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_20200130T084128_20200130T093107_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_20200130T093107_20200130T102041_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_20200130T102041_20200130T111020_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200130T111020_20200130T115955_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_20200130T115955_20200130T124934_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200130T124934_20200130T133908_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_20200130T133908_20200130T142847_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200130T142847_20200130T151822_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_20200130T151822_20200130T160801_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_20200130T160801_20200130T165736_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_20200130T165736_20200130T174715_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_220200130T174715_20200130T183649_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_220200130T183649_20200130T192628_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_20200130T192628_20200130T201603_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_20200130T201603_20200130T210542_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_220200130T210542_20200130T215516_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20200130T215516_20200130T224455_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_220200130T224455_20200130T233430_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_20200130T233430_20200131T002409_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		

## 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.

1

P2P Quality Flags (20Hz PLRM)		
Since the P2P Quality Flags are copied di	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	29	
P2P Quality Flags (1 Hz & 1Hz PL	LRM)	
Since the P2P Quality Flags are copied di	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	30	
6.8 P2P Ocean Retracking Qua	ality Chaok	
6.6 FZF Ocean Retracking Qua		
P2P Retracking Flags (20Hz)		
Cryosat P2P data includes an ocean retracki	ing 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): The second se	his flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.	
Number of products with errors:	26	
Number of products with errors:	20	
•		
P2P Retracking Flags PLRM	rg quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.	
P2P Retracking Flags PLRM CryoSat L2 data includes an ocean retrackin		
P2P Retracking Flags PLRM CryoSat L2 data includes an ocean retrackin	ng quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.	