

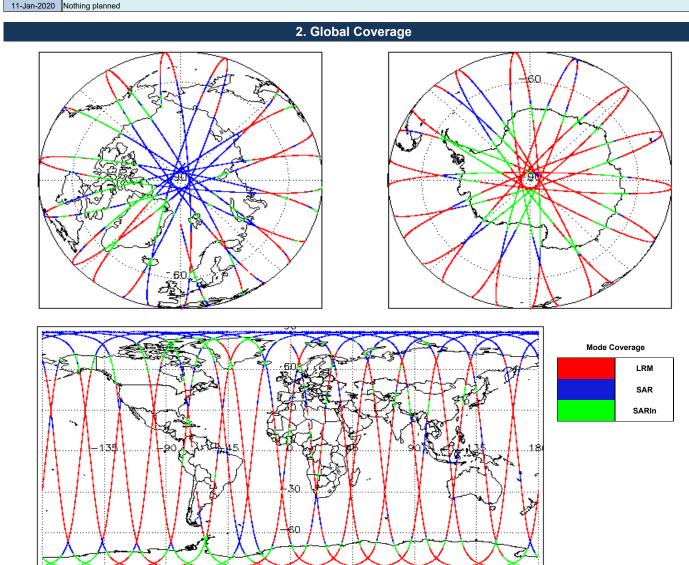
# **QA4EO Daily Report for GOP data:**

<u>10/01/2020</u>

Report Production:	10-Feb-2020	Check	L1 & L2	P2P
Report Production:	10-Feb-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 used.	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	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

1. Overview

Mission / Instrument News				
09-Jan-2020	None			
10-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).

Number of products with errors:

0

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain.
_1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1E DSARIn chains. A modification is required in the next release.	B GOPR and GOPN products bec	ause the I1b_processing_quality_hr field is not correctly configured in the OSAR and
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	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4414B Auviliany Correction Error Chook		
4.4 L1B Auxiliary Correction Error Check	d The hit velue of this flow indicat	
CryoSat L1B data includes a correction error flag for each measurement record	u. The bit value of this had indicate	es any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CrvoSat L1B data includes a measurement confidence flag for each measuren	nent record. The bit value of this fi	ad indicates any propiems when set.
CryoSat L1B data includes a measurement confidence flag for each measuren Attitude Correction Missing: This flag is currently set in error for GOPR prod		
Attitude Correction Missing: This flag is currently set in error for GOPR prod		
Attitude Correction Missing: This flag is currently set in error for GOPR prod		
Attitude Correction Missing: This flag is currently set in error for GOPR prod		
Attitude Correction Missing: This flag is currently set in error for GOPR prod Number of products with errors: 0	lucts due to a configuration issue.	This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check	ducts due to a configuration issue. d. The bit value of this flag indicate	This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for GOPR prod Number of products with errors: 0 4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but	ducts due to a configuration issue. d. The bit value of this flag indicate	This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for GOPR prod Number of products with errors: 0 4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 18	ducts due to a configuration issue.	This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for GOPR prod Number of products with errors: 0 4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 18 Product	ducts due to a configuration issue. d. The bit value of this flag indicate	This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for GOPR prod Number of products with errors: 0 4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for some products over land, but	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. Test Failed	This is being investigated and will be updated in the next SW update. It is any problems when set. Description
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         Loss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       0         CS_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected.           Test Failed           Loss of Echo	This is being investigated and will be updated in the next SW update.  as any problems when set.           Description           The tracking echo is missing for one or more records
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         Loss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       25_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001         CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T071758_C001	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected.           Test Failed           Loss of Echo           Loss of Echo	This is being investigated and will be updated in the next SW update.  It is any problems when set.  Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record.         Loss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         CS_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001         CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T071758_C001         CS_OFFL_SIR_GOPN1B_20200110T004309_20200110T004807_C001	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo	This is being investigated and will be updated in the next SW update.  as any problems when set.           Description         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         coss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         CS_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001         CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T071758_C001         CS_OFFL_SIR_GOPN1B_20200110T004309_20200110T004807_C001         CS_OFFL_SIR_GOPN1B_20200110T014051_20200110T014703_C001         CS_OFFL_SIR_GOPN1B_20200110T074000_20200110T074207_C001	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo Loss of Echo	This is being investigated and will be updated in the next SW update.  In the set of the
Attitude Correction Missing: This flag is currently set in error for GOPR produut         Aumber of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         coss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         ScoFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001         CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T074758_C001         CS_OFFL_SIR_GOPN1B_20200110T04309_20200110T04407_C001         CS_OFFL_SIR_GOPN1B_20200110T014051_20200110T014703_C001         CS_OFFL_SIR_GOPN1B_20200110T074000_20200110T074207_C001         CS_OFFL_SIR_GOPN1B_20200110T074000_20200110T044074207_C001	d. The bit value of this flag indicate this is to be expected. Test Failed         Loss of Echo         Loss of Echo	This is being investigated and will be updated in the next SW update.  In the set of the
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         coss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         CS_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001       CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T071758_C001         CS_OFFL_SIR_GOPN1B_20200110T004309_20200110T004807_C001       CS_OFFL_SIR_GOPN1B_20200110T014051_20200110T014703_C001	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	This is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is being investigated and will be updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW update.  In this is the updated in the next SW updated in the next SW updated in the updated in the updated in the next SW updated in the upd
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record.         Joss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         CS_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001         CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T074758_C001         CS_OFFL_SIR_GOPM1B_20200110T04409_20200110T074807_C001         CS_OFFL_SIR_GOPN1B_20200110T044051_20200110T04407_C001         CS_OFFL_SIR_GOPN1B_20200110T074000_20200110T074207_C001         CS_OFFL_SIR_GOPN1B_20200110T140013_20200110T140116_C001         CS_OFFL_SIR_GOPN1B_20200110T140013_20200110T1407129_C001	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	This is being investigated and will be updated in the next SW update. as any problems when set. Description The tracking echo is missing for one or more records The tra
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record.         Loss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         CS_OFFL_SIR_GOPM1B_20200110T060213_20200110T063019_C001       0         CS_OFFL_SIR_GOPM1B_20200110T064408_20200110T074758_C001       0         CS_OFFL_SIR_GOPN1B_20200110T04309_20200110T04407_C001       0         CS_OFFL_SIR_GOPN1B_20200110T0400_20200110T074707_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140013_20200110T140116_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140729_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140740720_C001       0	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	This is being investigated and will be updated in the next SW update.  as any problems when set.           Description         The tracking echo is missing for one or more records
Attitude Correction Missing: This flag is currently set in error for GOPR prod         Number of products with errors:       0         4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         coss of Echo Flag: This flag is currently set for some products over land, but         Number of products with errors:       18         Product       18         CS_OFFL_SIR_GOPN1B_20200110T060213_20200110T063019_C001       0         CS_OFFL_SIR_GOPN1B_20200110T064408_20200110T071758_C001       0         CS_OFFL_SIR_GOPN1B_20200110T04409_20200110T014703_C001       0         CS_OFFL_SIR_GOPN1B_20200110T04409_20200110T074207_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140013_20200110T140714072_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140729_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140729_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140729_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140729_C001       0         CS_OFFL_SIR_GOPN1B_20200110T140517_20200110T140729_C001       0         CS_OFFL_SIR_GOPN1B_20200110T185814_20200110T185840_C001       0         CS_OFFL_SIR_GOPN1B_20200110T1203392_0200110T203306_C001       0	ducts due to a configuration issue. d. The bit value of this flag indicate this is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	This is being investigated and will be updated in the next SW update.  This is being investigated and will be updated in the next SW update.  Description  The tracking echo is missing for one or more records

5.1 L2 Product Format Check

CS\_OFFL\_SIR\_GOPR1B\_20200110T055147\_20200110T055238\_C001

CS\_OFFL\_SIR\_GOPR1B\_20200110T103412\_20200110T103718\_C001

CS\_OFFL\_SIR\_GOPR1B\_20200110T153747\_20200110T154429\_C001

CS\_OFFL\_SIR\_GOPR1B\_20200110T185656\_20200110T185814\_C001

CS\_OFFL\_SIR\_GOPR1B\_20200110T222102\_20200110T222556\_C001

CS\_OFFL\_SIR\_GOPR1B\_20200110T231411\_20200110T232018\_C001

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: 0

Loss of Echo

5. GOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Product CS_OFFL_SIR_GOPM_2_20200110T154919_20200110T155018_C001	Test Failed Intern Sea Surface (1), Intern Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Description There is an error with the WSS neight (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200110T004309_20200110T004807_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T014051_20200110T014703_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T022240_20200110T022651_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T031129_20200110T031351_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_20200110T032020_20200110T032334_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_20200110T040125_20200110T040513_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_20200110T050112_20200110T050228_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_20200110T063040_20200110T063203_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_20200110T064017_20200110T064133_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_20200110T073331_20200110T073453_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_20200110T074000_20200110T074207_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_20200110T081020_20200110T081145_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_20200110T081708_20200110T082016_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T095002_20200110T095209_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T095606_20200110T095937_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T113044_20200110T113318_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T122550_20200110T122711_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T130611_20200110T131205_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T140013_20200110T140116_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_20200110T140517_20200110T140729_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T145830_20200110T150029_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T154429_20200110T154918_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) Imean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPN_2_20200110T180843_20200110T181110_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GES) Non-Equilibrium Long Period	Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean
CS_OFFL_SIR_GOPN_2_20200110T194704_20200110T195017_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T212452_20200110T212901_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T213433_20200110T213558_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T231228_20200110T231410_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200110T235610_20200110T235705_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

	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20200110T004807_20200110T005525_C001	Topography (1)	Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200110T022652_20200110T023217_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_20200110T023217_20200110T023345_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_20200110T040513_20200110T041344_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_20200110T054206_20200110T054947_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_20200110T072140_20200110T072759_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_20200110T072759_20200110T073055_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_20200110T073454_20200110T073519_C001	Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20200110T085724_20200110T090658_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_20200110T090658_20200110T090833_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_20200110T103931_20200110T104556_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_20200110T104556_20200110T104720_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_20200110T121849_20200110T122440_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_20200110T122440_20200110T122550_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_20200110T140116_20200110T140216_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_20200110T140217_20200110T140516_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_20200110T153747_20200110T154429_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_20200110T171934_20200110T172455_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_20200110T184742_20200110T184941_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_20200110T185840_20200110T190635_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_20200110T221809_20200110T222102_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_20200110T222102_20200110T222556_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_20200110T235706_20200111T000247_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200110T001111_20200110T002335_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_20200110T002543_20200110T003839_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_20200110T003951_20200110T004235_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_20200110T010506_20200110T011437_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_20200110T011639_20200110T013152_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_20200110T013405_20200110T013910_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_20200110T014703_20200110T014913_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_20200110T025433_20200110T031104_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_20200110T031352_20200110T031827_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_20200110T032441_20200110T034949_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_20200110T042429_20200110T045041_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_20200110T045222_20200110T045728_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_20200110T045747_20200110T050112_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_20200110T050341_20200110T053145_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_20200110T053310_20200110T053611_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_20200110T055946_20200110T060209_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_20200110T060213_20200110T063019_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_20200110T063203_20200110T063641_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_20200110T064408_20200110T071758_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_20200110T080202_20200110T080452_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_20200110T080652_20200110T080947_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_20200110T081146_20200110T081707_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_20200110T082252_20200110T084516_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_20200110T084802_20200110T085724_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_20200110T090938_20200110T091324_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_20200110T092920_20200110T093407_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_20200110T093555_20200110T094742_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_20200110T094801_20200110T094914_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_20200110T095210_20200110T095606_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_20200110T100225_20200110T100813_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_20200110T100822_20200110T101354_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_20200110T101619_20200110T103412_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_20200110T105316_20200110T105916_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_20200110T110024_20200110T112343_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_20200110T113319_20200110T113512_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_20200110T113815_20200110T113942_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_20200110T114146_20200110T114841_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_20200110T114901_20200110T115820_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_20200110T120415_20200110T121117_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_20200110T122711_20200110T123047_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_20200110T123241_20200110T123832_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_20200110T123959_20200110T124814_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_20200110T125434_20200110T130610_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_20200110T131205_20200110T131426_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_20200110T131500_20200110T131921_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_20200110T132104_20200110T132808_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_20200110T132922_20200110T133602_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_20200110T133742_20200110T135205_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_20200110T135225_20200110T135229_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_20200110T141915_20200110T142142_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_20200110T142304_20200110T142735_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_20200110T143105_20200110T144705_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_20200110T144953_20200110T145830_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_20200110T150045_20200110T152330_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_20200110T160106_20200110T162629_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_20200110T163911_20200110T164357_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_20200110T164455_20200110T170903_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_20200110T173815_20200110T180429_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_20200110T181111_20200110T181704_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_20200110T181839_20200110T184615_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_20200110T185123_20200110T185258_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_20200110T190936_20200110T194416_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_20200110T195017_20200110T195535_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_20200110T195733_20200110T200015_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_20200110T200214_20200110T200411_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_20200110T203306_20200110T203532_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_20200110T203650_20200110T203717_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_20200110T204941_20200110T205818_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_20200110T210104_20200110T212313_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_20200110T213026_20200110T213433_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_20200110T213638_20200110T214939_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_20200110T215127_20200110T215742_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_20200110T215917_20200110T220400_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_20200110T222914_20200110T230215_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_20200110T230403_20200110T230917_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_20200110T230937_20200110T231227_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_20200110T232018_20200110T235047_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_20200110T063040_20200110T063203_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_20200110T152510_20200110T152828_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_20200110T200745_20200110T200749_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_20200110T091915_20200110T092039_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_20200110T103931_20200110T104556_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200110T122440_20200110T122550_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200110T185656_20200110T185814_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200110T212314_20200110T212452_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200110T000224_20200110T000409_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_20200110T004309_20200110T004807_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_20200110T010110_20200110T010506_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_20200110T013220_20200110T013405_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_20200110T014051_20200110T014703_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_20200110T022240_20200110T022651_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_20200110T024325_20200110T024349_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_20200110T024404_20200110T024635_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_20200110T040125_20200110T040513_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_20200110T042057_20200110T042429_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_20200110T050112_20200110T050228_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_20200110T053612_20200110T054206_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_20200110T063040_20200110T063203_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_20200110T073331_20200110T073453_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_20200110T073902_20200110T073928_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_20200110T074000_20200110T074207_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_20200110T081708_20200110T082016_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_20200110T090833_20200110T090906_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_20200110T092554_20200110T092919_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_20200110T095002_20200110T095209_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_20200110T105137_20200110T105226_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_20200110T113044_20200110T113318_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_20200110T113512_20200110T113814_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_20200110T113942_20200110T114138_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.

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CS_DFT_SR_0CPH_2_R000110119552_0000110119552_0001         COOD Backsoulder Guility         more words.           CS_DFT_SR_0CPH_2_R000110119558_00001101195582_0001         COOD Backsoulder Guility         The COOD Barge and Edubacetie Guility FLIM.           CS_DFT_SR_0CPH_2_20200110119542_20200110119542_0001         COOD Backsoulder Guility         The COOD Barge and Edubacetie Guility FLIM.           CS_DFT_SR_0CPH_2_20200110119542_0000110119540_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubacetie Guility FLIM.           CS_DFT_SR_0CPH_2_20200110119540_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubacetier Guility FLIM.           CS_DFT_SR_0CPH_2_20200110119340_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubacetier Guility Fligs have been set for one or more words.           CS_DFT_SR_0CPH_2_20200110119340_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubacetier Guility Fligs have been set for one or more words.           CS_DFT_SR_0CPH_2_202001101119340_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubacetier Guility Fligs have been set for one or more words.           CS_DFT_SR_0CPH_2_202001101119340_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubacetier Guility Fligs have been set for one or more words.           CS_DFT_SR_0CPH_2_202001101119343_0001         COOD Allineter Range Guility FLIM.         The COOD Range and Edubaceter Guility Fligs have been set for one or more words. <td>CS_OFFL_SIR_GOPN_2_20200110T144809_20200110T144953_C001</td> <td></td> <td></td>	CS_OFFL_SIR_GOPN_2_20200110T144809_20200110T144953_C001		
Call, Dec. (Call)         Cocoo Backcaster Guilly         more recents.           CS, OFFL_SR_GOPN_2_202001107154193_02001107154193_CO01         Additional Register Names	CS_OFFL_SIR_GOPN_2_20200110T145830_20200110T150029_C001		
CS_OFFL_SIR_GOPN_2_20200110116428_20200110116418_001 With an excession County PLM, COCG With and Participant Deals and Participant D	CS_OFFL_SIR_GOPN_2_20200110T152510_20200110T152828_C001		
CS_OFTL_SIL_GOPL_2_2020110116315_0_0001         OCC06 Backscatter Quality         immer records.           CS_OFTL_SIL_GOPL_2_2020110116315_0_0001         OCC06 Attimuter Range Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC6 Backscatter Quality.           CS_OFTL_SIL_GOPL_2_2020110116316_0001         OCC06 Attimuter Range Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC6 Backscatter Quality.           CS_OFTL_SIL_GOPL_2_202011011710002_002011011711009_0001         OCC06 Attimuter Range Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality.           CS_OFTL_SIL_GOPL_2_2020011011710002_002011011717026_001         OCC06 Attimuter Range Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Flags have been set for one or OCC06 Backscatter Quality PLRM.         The OCC06 Range and Backscatter Quality Fl	CS_OFFL_SIR_GOPN_2_20200110T154429_20200110T154918_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_DFL_SIR_GOPN_2_202001101180380001         OCOO Backscatter Quality         The OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_202001101163630_2020011011710000_C001         OCOO Backscatter Quality         The OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_2020011011710000_2020011011717020_C001         OCOO Attracter Range Quality PLRM, OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_202001101101701000_202001101171728_0001         OCOO Attracter Range Quality PLRM, OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_2020011011018015_202001101191728_0001         OCOO Attracter Range Quality PLRM, OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_202001101180715_20200110118083_0001         OCOO Attracter Range Quality PLRM, OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_20200110118083_202001101180744_0001         OCOO Attracter Range Quality PLRM, The OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_202001101190813_202001101190744_0001         OCOO Attracter Range Quality PLRM, The OCOO Range and Backscatter Quality Flags have been set for one or more records.           CB_OFFL_SIR_GOPN_2_202001101190813_202001101190986_C001         OCOO Attracter Range Quality PLRM, OCOO Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200110T162743_20200110T162906_C001		
Column	CS_OFFL_SIR_GOPN_2_20200110T163056_20200110T163154_C001		
CS_DFFL_SIR_GOPN_2_20200110T171002_0001         CCOG Backscatter Quality         more records           CS_OFFL_SIR_GOPN_2_20200110T1717638_20200110T171728_C001         CCOG Backscatter Quality PLRM, CCOG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200110T180715_20200110T180835_C001         Common Minimeter Range and Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200110T180843_20200110T181010_C001         CCOG Altimeter Range Quality PLRM, CCOG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200110T180843_20200110T180744_C001         CCOG 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_20200110T190813_20200110T190936_C001         CCOG 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_20200110T190813_20200110T190936_C001         CCOG 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_20200110T190283_20200110T1202914_C001         CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200110T2215433_	CS_OFFL_SIR_GOPN_2_20200110T163630_20200110T163848_C001		
CS_OFFL_SIR_GOPN_2_20200110119785_0200110119778_02001         OCCG Backscatter Quality         more records.           CS_OFFL_SIR_GOPN_2_202001101180715_202001101180835_C001         OCGG Backscatter Quality         Te Ocean Altimeter Range and Backscatter Quality at for one or more records.           CS_OFFL_SIR_GOPN_2_202001101180843_202001101181110_C001         OCGG Altimeter Range Quality PLRM, OCGG Altimeter Range and Backscatter Quality         The OCGG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101180643_202001101180110_C001         OCGG Altimeter Range Quality PLRM, OCGG Backscatter Quality         The OCGG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101190635_202001101190744_C001         OCGG Altimeter Range Quality PLRM, OCGG Backscatter Quality         The OCGG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101190635_202001101190936_C001         OCGG Altimeter Range Quality PLRM, The OCGG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101190535_202001101202914_C001         OCGG Altimeter Range Quality PLRM, The OCGG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_20200110122053_202001101202914_C001         OCGG Altimeter Range Quality PLRM, COG Gascatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2020011012213433_202001101221356_C001         OCGG Altimeter Range Quality PLRM, COG Altimeter Range Quality	CS_OFFL_SIR_GOPN_2_20200110T170903_20200110T171009_C001		
CS_OFFL_SIR_GOPN_2_20200110T180715_20200110T180835_C001       and Backscatter Quality PLEM, OCCOG       Ine OCCog Animeter Range and Backscatter Quality PLEM, OCCOG Animeter Range and Backscatter Quality PLEM, OCCOG Backscatter Quality DLEM, OCCOG Backscatter Quality PLEM, OCCOG Backscatter Quality       The OCCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T190635_20200110T190936_C001       OCCOG Backscatter Quality       The OCCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T190813_20200110T190936_C001       OCCGG Backscatter Quality       The OCCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T190535_20200110T195649_C001       OCCGG Altimeter Range Quality PLRM, OCCGG Backscatter Quality       The OCCG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T202914_C001       OCCGG Backscatter Quality PLRM, OCCGG Backscatter Quality PLRM, OCCG Backscatter Qualit	CS_OFFL_SIR_GOPN_2_20200110T171638_20200110T171728_C001		
OC_OPEL_SIR_GOPN_2_202001101180643_202001101190744_C001         OCCG Backscatter Quality         more records.           CS_OFFL_SIR_GOPN_2_202001101190635_202001101190744_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCCG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101190613_202001101199936_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCCG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101196535_202001101196649_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCCG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101202853_202001101202914_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality         The OCCG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101213433_202001101213556_C001         OCCG Altimeter Range SSHA, SWH and Backscatter Quality PLRM, DCCG Backscatter Quality PLRM, DCCG Backscatter Quality Flags have been set for one or more records.         The OCCG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_202001101221309_C001         OCCG Altimeter Range Quality PLRM, DCCG Backscatter Quality         The OCCG Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2020011017221443_2020011017221809_C001         OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality	CS_OFFL_SIR_GOPN_2_20200110T180715_20200110T180835_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20200110T190335_20200110T190745_C001       OCOG Backscatter Quality       Inore records.         CS_OFFL_SIR_GOPN_2_20200110T190813_20200110T190936_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_20200110T195535_20200110T195649_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_20200110T202853_20200110T202914_C001       OCOG Altimeter Range, Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T2213433_20200110T213558_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T22124_20200110T221309_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T2214003_C001       OCOG Altimeter Range Quality PLRM	CS_OFFL_SIR_GOPN_2_20200110T180843_20200110T181110_C001		
CS_OFFL_SIR_GOPN_2_20200110T190813_20200110T190830_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_20200110T195535_20200110T195649_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_20200110T202853_20200110T202914_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, PLRM       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T22124_20200110T221309_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_20200110T22124_20200110T221309_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T230403_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or <br< td=""><td>CS_OFFL_SIR_GOPN_2_20200110T190635_20200110T190744_C001</td><td></td><td></td></br<>	CS_OFFL_SIR_GOPN_2_20200110T190635_20200110T190744_C001		
CS_OFFL_SIR_GOPN_2_202001101193635_202001101193649_0001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202001101202853_202001101202914_C001       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_202001101221224_202001101221309_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_202001101221224_202001101221309_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_202001101221443_202001101221809_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_202001101221443_202001101221809_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_2020011017230224_2020011017230403_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_2020011017000458_2020011010011111_C001       OCOG Altimeter Range Altimeter Range	CS_OFFL_SIR_GOPN_2_20200110T190813_20200110T190936_C001		
CS_OFFL_SIR_GOPN_2_202001101202833_202001101202814_C0011       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202001101213433_202001101213558_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM,       The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221224_20200110T221309_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatte	CS_OFFL_SIR_GOPN_2_20200110T195535_20200110T195649_C001		
CS_OFFL_SIR_GOPN_2_20200110T213433_20200110T213558_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       The OCGA Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality       The OCGA Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality       The OCGA Range and Backscatter Quality Flags and the OCGA Range and Backscatter Quality PLRM, OCOG Backscatter Quality         CS_OFFL_SIR_GOPN_2_20200110T221443_20200110T221809_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_20200110T221443_20200110T221809_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_20200110T230224_20200110T230403_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_20200110T000458_20200110T001111_C001       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_20200110T202853_20200110T202914_C001		
CS_OFFL_SIR_GOPN_2_20200110122124_202001101221809_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202001101221443_202001101221809_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_202001101230224_202001101230403_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_202001101230224_202001101230403_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_202001101000458_202001101001111_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200110T213433_20200110T213558_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_202001101221443_202001101221609_C0011       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPN_2_202001101230224_202001101230403_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_202001101000458_202001101001111_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20200110T221224_20200110T221309_C001		
CS_OFFL_SIR_GOPR_2_20200110T000458_20200110T001111_C001       OCOG Backscatter Quality       more records.         OCS_OFFL_SIR_GOPR_2_20200110T000458_20200110T001111_C001       Ocean Altimeter Range, SSHA, SWH 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_20200110T221443_20200110T221809_C001		
CS_OFFL_SIR_GOPR_2_20200110T000458_20200110T001111_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been as for one or more records	CS_OFFL_SIR_GOPN_2_20200110T230224_20200110T230403_C001		
	CS_OFFL_SIR_GOPR_2_20200110T000458_20200110T001111_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_GOPR_2_20200110T004807_20200110T005525_C001	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_20200110T021315_20200110T021445_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_20200110T021923_20200110T022240_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_20200110T022652_20200110T023217_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_20200110T023217_20200110T023345_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_20200110T032334_20200110T032441_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_20200110T040513_20200110T041344_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_20200110T050228_20200110T050341_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_20200110T054206_20200110T054947_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_20200110T055147_20200110T055238_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_20200110T064134_20200110T064408_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_20200110T071928_20200110T071944_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_20200110T072140_20200110T072759_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_20200110T080015_20200110T080202_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_20200110T082016_20200110T082252_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_20200110T085724_20200110T090658_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_20200110T090658_20200110T090833_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_20200110T091409_20200110T091645_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_20200110T091709_20200110T091724_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_20200110T103412_20200110T103718_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_20200110T103931_20200110T104556_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_20200110T104556_20200110T104720_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_20200110T104736_20200110T105137_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_20200110T112344_20200110T113044_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_20200110T121849_20200110T122440_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_20200110T123832_20200110T123959_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_20200110T124815_20200110T125028_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_20200110T135928_20200110T140013_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_20200110T140729_20200110T140851_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_20200110T141117_20200110T141226_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_20200110T141455_20200110T141548_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_20200110T152331_20200110T152428_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_20200110T153747_20200110T154429_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_20200110T164357_20200110T164455_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_20200110T171728_20200110T171913_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_20200110T171934_20200110T172455_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_20200110T185258_20200110T185501_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_20200110T185840_20200110T190635_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_20200110T202441_20200110T202802_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_20200110T222102_20200110T222556_C001	and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range, SSHA, SVVH and backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_GOPR_2_20200110T231411_20200110T232018_C001	Otigant Autimeter Rahge, SSAA, SWH lity and Backscatter Quality PLRM, OCOG	গিৰ্ট উঞ্জেন মার্গানিষ্টেশির্মিষ্টি, ১১৪৪, ১৩৮৪ এব Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_GOPR_2_20200110T235706_20200111T000247_C001	Atimeter Range, SSRAF, SWAlity and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	าศีย์ชี้เวียสีกิ มีเม็กษัยศีรีโร้อง รุธศA, รงพา and ธละหระสนยา quality riags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records		
L2 Quality Flags (1 Hz & 1Hz PLRM)				
Currently, there are several common flags raised in the Level 2 products, which are summarised below.				

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

200

55

144

0

Number of products with errors:

## 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

### Number of products with errors:

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

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

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

Number of products with errors:

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

## 6.2 P2P Product Header Analysis

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

#### 6.3 P2P Auxiliary Data File Usage Check

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

 Number of products with errors:
 0

## 6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20200110T000007_20200110T004942_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20200110T004942_20200110T013921_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_20200110T013921_20200110T022856_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_20200110T022856_20200110T031835_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_20200110T031835_20200110T040809_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_20200110T040809_20200110T045748_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_20200110T045748_20200110T054723_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_20200110T054723_20200110T063702_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_20200110T063702_20200110T072636_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_20200110T072636_20200110T081616_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_20200110T081616_20200110T090550_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_20200110T090550_20200110T095529_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_20200110T095529_20200110T104504_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_20200110T104504_20200110T113443_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_20200110T113443_20200110T122417_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_20200110T122417_20200110T131356_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide heigh (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20200110T131356_20200110T140331_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_20200110T140331_20200110T145310_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_20200110T145310_20200110T154244_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_20200110T154244_20200110T163223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Inere 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_20200110T163223_20200110T172158_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_20200110T172158_20200110T181137_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (ESS) Non-Equilibrium Long Period	Inere 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_20200110T181137_20200110T190111_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_220200110T190111_20200110T195051_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_220200110T204025_20200110T213004_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_220200110T213004_20200110T221939_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide heigh (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200110T221939_20200110T230918_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_220200110T230918_20200110T235852_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_20200110T235852_20200111T004831_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

6.5 P2P Measurement Confidence Data Check			
	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 di	rectly 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 (20Hz PLRM)			
Since the P2P Quality Flags are copied di	rectly 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	.RM)		
Since the P2P Quality Flags are copied di	rectly 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 Qu	ality Check		
P2P Retracking Flags (20Hz)			
•	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): T	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:	25		
P2P Retracking Flags PLRM			
CryoSat L2 data includes an ocean retrackin	g quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.		
Ocean Retracking Quality Flag (PLRM): T	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:

30