

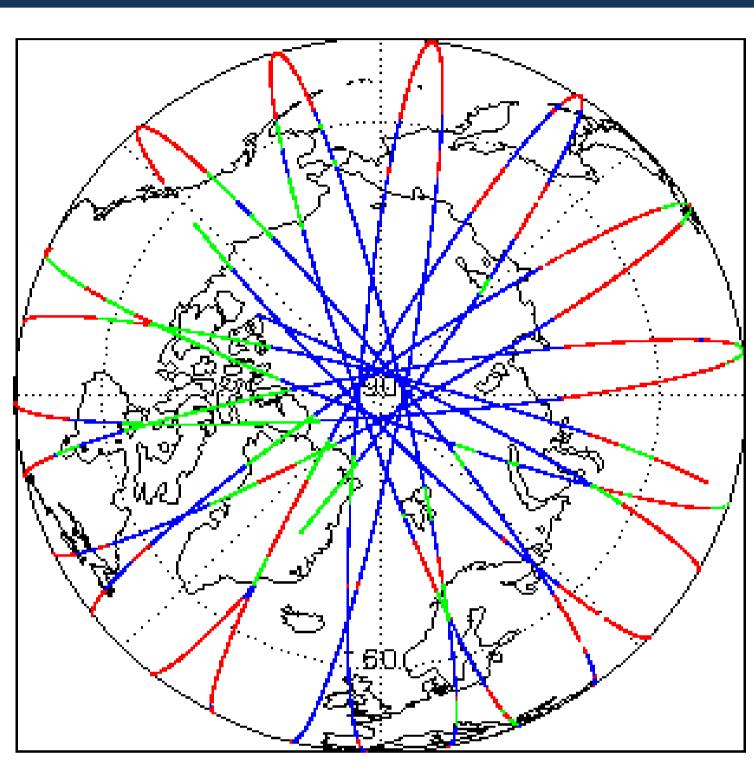
# 1. Overview

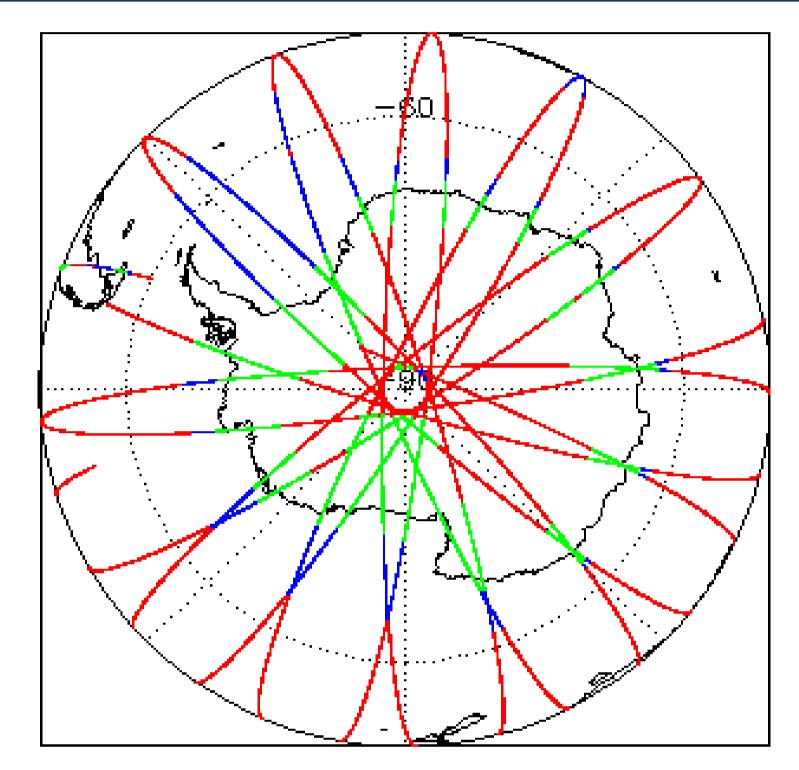
Report Production:	11-May-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

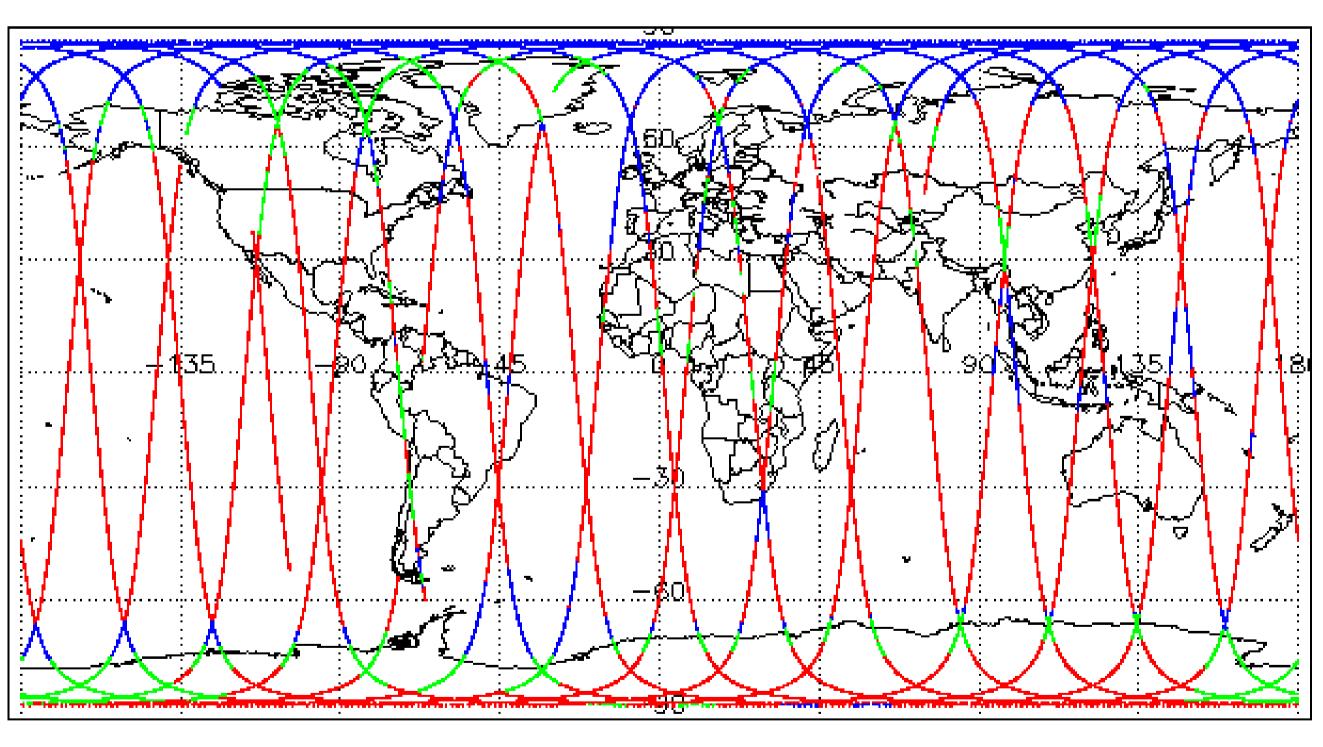
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

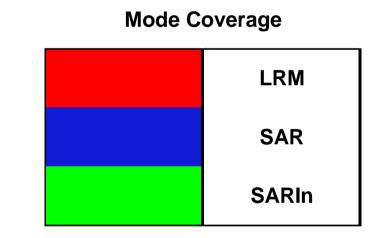
Mission / Instru	ument News
08-Apr-2020	None
09-Apr-2020	None
10-Apr-2020	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

### **4.1 L1B Product Format Check**

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

### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The l1b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the l1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### **4.4 L1B Auxiliary Correction Error Check**

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

0

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

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

**Number of products with errors:** 

ProductTest FailedDescriptionCS\_OFFL\_SIR\_GOPM1B\_20200409T040835\_20200409T040852\_C001Power scaling errorThere is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

8

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200409T204516_20200409T205543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200409T205722_20200409T211203_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200409T085652_20200409T085801_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200409T103609_20200409T104200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200409T152533_20200409T152633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200409T161511_20200409T161746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200409T170613_20200409T170831_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200409T184900_20200409T185615_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. GOP Level 2 Data Quality Check

# 5.1 L2 Product Format Check

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

Number of products with errors:

### **5.2 L2 Product Header Analysis**

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

Number of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

### **5.4 L2 Auxiliary Correction Error Check**

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200408T235524_20200409T002352_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200409T122820_20200409T125640_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20200409T191715_20200409T193253_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPM_2_20200409T235403_20200409T235511_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_20200409T013202_20200409T013338_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_20200409T030859_20200409T031218_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_20200409T044124_20200409T044245_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_20200409T044754_20200409T045105_C001		Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200409T062216_20200409T062457_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_20200409T062657_20200409T063229_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_20200409T071749_20200409T072016_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_20200409T080130_20200409T080406_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_20200409T085652_20200409T085801_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_20200409T085911_20200409T090047_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_20200409T103609_20200409T104200_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_20200409T111856_20200409T112045_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_20200409T112858_20200409T113121_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_20200409T121619_20200409T122029_C001	` '	Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200409T143830_20200409T144204_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_20200409T152533_20200409T152633_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200409T161746_20200409T162107_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_20200409T162620_20200409T162744_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_20200409T170831_20200409T170950_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_20200409T180521_20200409T180630_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_20200409T184750_20200409T184900_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_20200409T194223_20200409T194416_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_20200409T202555_20200409T202814_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_20200409T220143_20200409T220654_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200409T225127_20200409T225306_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_20200409T230040_20200409T230343_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_20200409T234133_20200409T234516_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), 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 for one or more records
CS_OFFL_SIR_GOPR_2_20200409T003520_20200409T004228_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_20200409T021311_20200409T022045_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_20200409T023000_20200409T023159_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_20200409T035053_20200409T035849_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_20200409T035849_20200409T040011_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_20200409T053044_20200409T053748_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_20200409T053748_20200409T054151_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20200409T071221_20200409T071641_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_20200409T071641_20200409T071749_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_20200409T085015_20200409T085302_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_20200409T085302_20200409T085652_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_20200409T102945_20200409T103609_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_20200409T121131_20200409T121619_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_20200409T134759_20200409T135816_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_20200409T152818_20200409T153711_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_20200409T170950_20200409T171735_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_20200409T184900_20200409T185615_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_20200409T200409_20200409T200557_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200409T202814_20200409T203522_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_20200409T220654_20200409T221257_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_20200409T221259_20200409T221407_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200409T234516_20200409T235403_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### **5.5 L2 Measurement Confidence Data Check**

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200409T040835_20200409T040852_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## **5.6 L2 Measurement Quality Flag Check**

### L2 Quality Flags (20Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200408T235524_20200409T002352_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_20200409T005412_20200409T012146_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_20200409T012325_20200409T012827_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_20200409T013527_20200409T020949_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_20200409T023630_20200409T024218_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_20200409T025513_20200409T030128_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_20200409T030324_20200409T030859_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_20200409T031443_20200409T034824_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_20200409T040207_20200409T040306_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_20200409T042128_20200409T044043_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH 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_20200409T044245_20200409T044754_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_20200409T045350_20200409T052801_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH 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_20200409T055230_20200409T055650_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH 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_20200409T055746_20200409T061524_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_20200409T062457_20200409T062657_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_20200409T063402_20200409T064939_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH 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_20200409T065559_20200409T070302_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_20200409T072304_20200409T074051_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_20200409T074212_20200409T075606_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_20200409T080406_20200409T080607_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_20200409T080715_20200409T081109_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_20200409T081300_20200409T082828_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_20200409T083029_20200409T083952_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_20200409T085801_20200409T085911_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_20200409T090733_20200409T091852_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_20200409T093458_20200409T093857_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200409T093458_20200409T093857_C001  CS_OFFL_SIR_GOPM_2_20200409T094212_20200409T095011_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_GOPM_2_20200409T094212_20200409T095011_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200409T094212_20200409T095011_C001 CS_OFFL_SIR_GOPM_2_20200409T095226_20200409T100734_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or More records.
CS_OFFL_SIR_GOPM_2_20200409T094212_20200409T095011_C001  CS_OFFL_SIR_GOPM_2_20200409T095226_20200409T100734_C001  CS_OFFL_SIR_GOPM_2_20200409T104425_20200409T105400_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or More records.
CS_OFFL_SIR_GOPM_2_20200409T094212_20200409T095011_C001  CS_OFFL_SIR_GOPM_2_20200409T095226_20200409T100734_C001  CS_OFFL_SIR_GOPM_2_20200409T104425_20200409T105400_C001  CS_OFFL_SIR_GOPM_2_20200409T105416_20200409T111811_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20200409T120720_20200409T120724_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_20200409T122820_20200409T125640_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_20200409T130254_20200409T130730_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_20200409T131028_20200409T133850_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_20200409T140237_20200409T143551_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_20200409T144204_20200409T144738_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_20200409T144915_20200409T145524_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_20200409T152633_20200409T152818_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_20200409T154124_20200409T161511_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_20200409T162107_20200409T162620_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_20200409T162830_20200409T164803_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_20200409T171947_20200409T174035_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_20200409T174144_20200409T175328_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_20200409T175741_20200409T180106_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_20200409T180123_20200409T180521_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_20200409T180800_20200409T183624_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_20200409T183640_20200409T184341_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_20200409T184512_20200409T184750_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_20200409T190201_20200409T190231_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_20200409T190307_20200409T191042_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_20200409T191715_20200409T193253_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_20200409T193446_20200409T194005_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_20200409T195051_20200409T200343_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_20200409T200557_20200409T201803_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_20200409T202034_20200409T202150_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_20200409T203833_20200409T203903_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_20200409T204516_20200409T205543_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_20200409T205722_20200409T211203_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_20200409T211411_20200409T211916_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_20200409T211939_20200409T212055_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_20200409T213130_20200409T213236_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_20200409T213659_20200409T213937_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_20200409T214657_20200409T214935_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_20200409T215057_20200409T215753_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_20200409T222844_20200409T223155_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_20200409T223351_20200409T225059_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_20200409T225418_20200409T225832_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_20200409T225853_20200409T230040_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_20200409T230453_20200409T232825_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_20200409T040852_20200409T040903_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_20200409T042000_20200409T042128_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_20200409T115856_20200409T120048_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_20200409T162620_20200409T162744_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_20200409T214935_20200409T215057_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_20200409T215808_20200409T215930_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_20200409T225127_20200409T225306_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_20200409T031218_20200409T031443_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_20200409T045105_20200409T045350_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_20200409T220654_20200409T221257_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_20200409T221259_20200409T221407_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

96

CS OFFL SIR GOPN 2 20200409T012525 20200409T03338_C001  CS_OFFL_SIR_GOPN 2_20200409T012525 20200409T022110_C001  CS_OFFL_SIR_GOPN 2_20200409T022015 20200409T022110_C001  CS_OFFL_SIR_GOPN 2_20200409T042015 20200409T022150_C001  CS_OFFL_SIR_GOPN 2_20200409T040815 20200409T040835_C001  CS_OFFL_SIR_GOPN 2_20200409T040815 20200409T040835_C001  CS_OFFL_SIR_GOPN 2_20200409T040815 20200409T040835_C001  CS_OFFL_SIR_GOPN 2_20200409T040911 20200409T040083_C001  CCCG_Altimoser Range Quality PLRM, DCCG_Altimoser Range Quality PLRM	Description		Product
CS_OFFL_SIR_GOPN_2_2020409T012165_2020409T01235_C001  CS_OFFL_SIR_GOPN_2_2020409T012165_2020409T01235_C001  CS_OFFL_SIR_GOPN_2_2020409T012205_2020409T013338_C001  CS_OFFL_SIR_GOPN_2_2020409T013202_2020409T013338_C001  CS_OFFL_SIR_GOPN_2_2020409T013202_2020409T013338_C001  CS_OFFL_SIR_GOPN_2_2020409T013204_2020409T022110_C001  CCCG_Altimeter Range and Backscatter Quality PLRM, The OCOG_Range and Backscatter Quality Flags have been set for an increase and backscatter Quality PLRM, The OCOG_Range and Backscatter Quality Flags have been set for an increase and backscatter Quality PLRM, The OCOG_Range and Backscatter Quality Flags have been set for an increase and backscatter Quality Flags have been set for an increase an	Description		Floduct
CS_OFFL_SIR_GOPN_2_20200409T013202_2020400T0401338_CO01  CS_OFFL_SIR_GOPN_2_20200409T022045_20200400T022110_CO01  CS_OFFL_SIR_GOPN_2_20200409T022045_20200400T022110_CO01  CS_OFFL_SIR_GOPN_2_20200409T022045_20200400T022110_CO01  CS_OFFL_SIR_GOPN_2_20200409T022045_20200400T022110_CO01  CS_OFFL_SIR_GOPN_2_20200409T022045_20200400T022110_CO01  CS_OFFL_SIR_GOPN_2_20200409T022045_20200400T022110_CO01  CS_OFFL_SIR_GOPN_2_20200409T024218_20200400T024552_CO01  CS_OFFL_SIR_GOPN_2_20200409T040812_20200400T040835_CO01  CS_OFFL_SIR_GOPN_2_20200409T040812_20200400T040835_CO01  CS_OFFL_SIR_GOPN_2_20200409T040811_20200400T040835_CO01  CS_OFFL_SIR_GOPN_2_20200409T040811_20200400T040849_CO01  CS_OFFL_SIR_GOPN_2_20200409T040811_20200400T040849_CO01  CS_OFFL_SIR_GOPN_2_20200409T040811_20200400T040849_CO01  CS_OFFL_SIR_GOPN_2_20200409T040811_20200400T04024128_CO01  CCS_OFFL_SIR_GOPN_2_20200409T040011_20200400T04024128_CO01  CCS_OFFL_SIR_GOPN_2_20200409T040011_20200400T04024128_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04124_20200400T0424245_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04124_20200400T0424245_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04124_20200400T0424245_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04124_20200400T042415_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04124_20200400T0426105_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04124_20200400T0426105_CO01  CCS_OFFL_SIR_GOPN_2_20200409T04174_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T071743_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08103_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08103_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08103_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08103_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_20200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_020200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_020200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_020200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_020200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_020200400T08408_CO01  CCS_OFFL_SIR_GOPN_2_20200409T08108_020200400		20200409T004532_20200409T004649_C001	CS_OFFL_SIR_GOPN_2_20200409T004
The OCOG Range and Backscatter Quality PLRM, COCG Altimeter Range Sunday PLRM, COCG Altimeter Range as Backscatter Quality Plags have been set for on more records.  CS_OFFL_SIR_GOPN_2_20200409T04218_20200409T04552_CD01  CS_OFFL_SIR_GOPN_2_20200409T04218_20200409T04552_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T04552_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T04552_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T040912_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T041248_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T041248_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T041248_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T041258_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T04126_CD01  CS_OFFL_SIR_GOPN_2_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T040948_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GOPN_2_20200409T080017_20200409T080016_CD01  CS_OFFL_SIR_GO		20200409T012155_20200409T012325_C001	CS_OFFL_SIR_GOPN_2_20200409T012
CS_OFFL_SIR_GOPN_2_20200409T024218_20200409T024552_C001  CS_OFFL_SIR_GOPN_2_20200409T040812_20200409T040835_C001  CS_OFFL_SIR_GOPN_2_20200409T040812_20200409T040835_C001  CS_OFFL_SIR_GOPN_2_20200409T040812_20200409T040848_C001  CS_OFFL_SIR_GOPN_2_20200409T040911_20200409T040948_C001  CS_OFFL_SIR_GOPN_2_20200409T040911_20200409T040948_C001  CS_OFFL_SIR_GOPN_2_20200409T040911_20200409T040948_C001  CS_OFFL_SIR_GOPN_2_20200409T042000_20200409T042128_C001  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042128_C001  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042128_C001  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042125_C001  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04125_C001  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T04125_C001  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T041515_C001  CS_OFFL_SIR_GOPN_2_20200409T04754_20200409T045105_C001  CS_OFFL_SIR_GOPN_2_20200409T04754_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080807_2	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have bee	20200409T013202_20200409T013338_C001	CS_OFFL_SIR_GOPN_2_20200409T013
CS_OFFL_SIR_GOPN_2_20200409T040812_20200409T040835_CO01  CS_OFFL_SIR_GOPN_2_20200409T040812_20200409T0409348_CO01  CS_OFFL_SIR_GOPN_2_20200409T040811_20200409T0409348_CO01  CS_OFFL_SIR_GOPN_2_20200409T040911_20200409T0409348_CO01  CS_OFFL_SIR_GOPN_2_20200409T040914_242_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_2_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_2_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_2_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_2_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_2_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_2_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T0415105_CO01  CS_OFFL_SIR_GOPN_2_20200409T04174_2_CO00409T080406_CO01  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_CO01  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080715_CO01  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_CO01  CCG_Altimeter Range_Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for on more records.  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_CO01  CCG_Altimeter Range_Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for on more records.  CCG_Altimeter Range_Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for on more records.  CCG_Altimeter Range_Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for on more records.  CCG_Altimeter Range_Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for on more records.  CCG_Altimeter Range_Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for on more records.  CCG_GRANGE RANGE		20200409T022045_20200409T022110_C001	CS_OFFL_SIR_GOPN_2_20200409T022
CS_OFFL_SIR_GOPN_2_20200409T040911_20200409T040948_CO01  CS_OFFL_SIR_GOPN_2_20200409T042002_20200409T042128_CO01  CS_OFFL_SIR_GOPN_2_20200409T042002_20200409T042128_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042128_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042128_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042128_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042125_CO01  CS_OFFL_SIR_GOPN_2_20200409T04124_20200409T042105_CO01  CS_OFFL_SIR_GOPN_2_20200409T041754_20200409T045105_CO01  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_CO01  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_CO01  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T080406_CO01  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_CO01  CS_OFFL_SIR_GOPN_2_20200409T08007_20200409T080406_CO01  CS_OFFL_SIR_GOPN_2_20200409T08007_20200409T080406_CO01  CS_OFFL_SIR_GOPN_2_20200409T08007_20200409T08007_5 CO01  CCOG Altimeter Range Quality PLRM. CCOG Backscatter Quality Flags have been set for on more records.  CS_OFFL_SIR_GOPN_2_20200409T08007_20200409T08007_5 CO01  CCOG Altimeter Range Quality PLRM. CCOG Backscatter Quality Flags have been set for on more records.  CS_OFFL_SIR_GOPN_2_20200409T080807_20200409T0807_5 CO01  CCOG Altimeter Range Quality PLRM. CCOG Backscatter Quality Flags have been set for on more records.		20200409T024218_20200409T024552_C001	CS_OFFL_SIR_GOPN_2_20200409T024
CS_OFFL_SIR_GOPN_2_20200409T04200_20200409T042128_C001  CS_OFFL_SIR_GOPN_2_20200409T04200_20200409T042128_C001  CS_OFFL_SIR_GOPN_2_20200409T044124_20200409T042128_C001  CS_OFFL_SIR_GOPN_2_20200409T044124_20200409T04215_C001  CS_OFFL_SIR_GOPN_2_20200409T044754_20200409T045105_C001  CS_OFFL_SIR_GOPN_2_20200409T047749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080408_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080408_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.		20200409T040812_20200409T040835_C001	CS_OFFL_SIR_GOPN_2_20200409T040
CS_OFFL_SIR_GOPN_2_20200409T044124_20200409T044245_C001  CS_OFFL_SIR_GOPN_2_20200409T044124_20200409T044245_C001  CS_OFFL_SIR_GOPN_2_20200409T044754_20200409T045105_C001  CS_OFFL_SIR_GOPN_2_20200409T04754_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T08080607_20200409T080715_C001  CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records.  CS_OFFL_SIR_GOPN_2_20200409T08080607_20200409T080715_C001  CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records.		20200409T040911_20200409T040948_C001	CS_OFFL_SIR_GOPN_2_20200409T040
CS_OFFL_SIR_GOPN_2_20200409T044754_20200409T045105_C001  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080857_20200409T094212_C001  CS_OFFL_SIR_GOPN_2_20200409T093857_20200409T094212_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatte		20200409T042000_20200409T042128_C001	CS_OFFL_SIR_GOPN_2_20200409T042
CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T071749_20200409T072016_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T094212_C001  CS_OFFL_SIR_GOPN_2_20200409T093857_20200409T094212_C001  OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.		20200409T044124_20200409T044245_C001	CS_OFFL_SIR_GOPN_2_20200409T044
CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T093857_20200409T094212_C001  CS_OFFL_SIR_GOPN_2_20200409T093857_20200409T094212_C001  OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,		20200409T044754_20200409T045105_C001	CS_OFFL_SIR_GOPN_2_20200409T044
CS_OFFL_SIR_GOPN_2_20200409T080130_20200409T080406_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  CS_OFFL_SIR_GOPN_2_20200409T093857_20200409T094212_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one more records.  The OCOG Range and Backscatter Quality Flags have been set for one more records.  The OCOG Range and Backscatter Quality Flags have been set for one more records.  The OCOG Range and Backscatter Quality Flags have been set for one more records.	more records.	20200409T071749_20200409T072016_C001	CS_OFFL_SIR_GOPN_2_20200409T07
CS_OFFL_SIR_GOPN_2_20200409T080607_20200409T080715_C001  OCOG Backscatter Quality  More records.  CS_OFFL_SIR_GOPN_2_20200409T093857_20200409T094212_C001  OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for on more records.	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have bee	20200409T080130_20200409T080406_C001	CS_OFFL_SIR_GOPN_2_20200409T080
OCOG Backscatter Quality more records.		20200409T080607_20200409T080715_C001	CS_OFFL_SIR_GOPN_2_20200409T080
	more records.	20200409T093857_20200409T094212_C001	CS_OFFL_SIR_GOPN_2_20200409T093
IANG BACKSCATTER CHAINTY PLRIM CUCOG	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have bee	20200409T095054_20200409T095200_C001	CS_OFFL_SIR_GOPN_2_20200409T095
CS_OFFL_SIR_GOPN_2_20200409T101713_20200409T102100_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records.  The OCOG Range and Backscatter Quality Flags have been set for on more records.		20200409T101713_20200409T102100_C001	CS_OFFL_SIR_GOPN_2_20200409T101
OCOG Backscatter Quality more records.	more records.	20200409T102151_20200409T102154_C001	CS_OFFL_SIR_GOPN_2_20200409T102
IANG BACKSCATTER CHAINTY PLRIM CUCOG	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have bee	20200409T103609_20200409T104200_C001	CS_OFFL_SIR_GOPN_2_20200409T103
CS_OFFL_SIR_GOPN_2_202004091111856_202004091112045_C001  OCOG Backscatter Quality more records.	more records.	20200409T111856_20200409T112045_C001	CS_OFFL_SIR_GOPN_2_20200409T117
IAND BACKSCATTER CHAIRTY PLRIVE CLOCK	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bee	20200409T112858_20200409T113121_C001	CS_OFFL_SIR_GOPN_2_20200409T112
CS_OFFL_SIR_GOPN_2_202004091115648_202004091115756_C001 OCOG Backscatter Quality more records.	more records.	20200409T115648_20200409T115756_C001	CS_OFFL_SIR_GOPN_2_20200409T115
IANG BACKSCATTER DITAITIV PLRIVI DICOG	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have bee	20200409T121057_20200409T121131_C001	CS_OFFL_SIR_GOPN_2_20200409T12
CS_OFFL_SIR_GOPN_2_20200409T122114_20200409T122236_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records.		20200409T122114_20200409T122236_C001	CS_OFFL_SIR_GOPN_2_20200409T122

CS_OFFL_SIR_GOPN_2_20200409T122352_20200409T122820_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_20200409T125825_20200409T130006_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_20200409T130115_20200409T130254_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_20200409T130849_20200409T131012_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_20200409T144738_20200409T144853_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_20200409T150544_20200409T150731_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200409T151655_20200409T151839_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_20200409T153711_20200409T153853_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_20200409T154006_20200409T154119_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_20200409T164803_20200409T165122_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_20200409T170831_20200409T170950_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_20200409T175457_20200409T175741_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_20200409T180521_20200409T180630_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_20200409T184750_20200409T184900_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_20200409T194223_20200409T194416_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_20200409T204145_20200409T204516_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_20200409T212903_20200409T212936_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_20200409T213348_20200409T213659_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_20200409T213937_20200409T214510_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_20200409T214935_20200409T215057_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_20200409T215808_20200409T215930_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_20200409T220143_20200409T220654_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_20200409T225127_20200409T225306_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_20200409T230040_20200409T230343_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200409T003520_20200409T004228_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_20200409T004228_20200409T004529_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_20200409T021311_20200409T022045_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_20200409T022110_20200409T022606_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_20200409T034824_20200409T034909_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_20200409T034924_20200409T035046_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_20200409T035053_20200409T035849_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_20200409T035849_20200409T040011_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_20200409T040428_20200409T040746_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_20200409T040948_20200409T041317_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_20200409T045105_20200409T045350_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_20200409T053031_20200409T053042_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_20200409T053044_20200409T053748_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_20200409T054216_20200409T055230_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_20200409T063229_20200409T063402_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_20200409T070302_20200409T070759_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_20200409T071221_20200409T071641_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_20200409T075606_20200409T080130_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_20200409T085302_20200409T085652_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_20200409T090047_20200409T090509_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_20200409T090558_20200409T090733_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_20200409T100734_20200409T101353_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_20200409T102945_20200409T103609_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_20200409T104200_20200409T104425_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_20200409T120724_20200409T120943_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_20200409T121131_20200409T121619_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_20200409T125640_20200409T125825_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_20200409T134527_20200409T134742_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPR_2_20200409T134759_20200409T135816_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200409T151616_20200409T151655_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_20200409T152205_20200409T152528_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_20200409T152818_20200409T153711_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_20200409T154119_20200409T154124_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_20200409T161511_20200409T161746_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_20200409T170613_20200409T170831_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_20200409T170950_20200409T171735_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_20200409T175328_20200409T175457_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_20200409T184341_20200409T184413_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_20200409T184900_20200409T185615_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_20200409T200409_20200409T200557_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_20200409T201803_20200409T202034_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_20200409T202150_20200409T202555_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_20200409T202814_20200409T203522_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_20200409T213120_20200409T213130_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_20200409T214632_20200409T214657_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_20200409T220654_20200409T221257_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_20200409T221259_20200409T221407_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_20200409T222748_20200409T222844_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_20200409T234516_20200409T235403_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.

### 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.

187 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:** 61

### 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.

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### **6.2 P2P Product Header Analysis**

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

Number of products with errors:

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

### **6.4 P2P Auxiliary Correction Error Check**

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

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

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

30

Number of products with errors:

**Test Failed** Description **Product** There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20200408T234932 20200409T003909 C002 Topography (1) 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 GOP 2 20200409T003909 20200409T012846 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20200409T012846\_20200409T021823\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20200409T021823\_20200409T030800\_C001 Topography (1) 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\_GOP\_2\_ 20200409T030800\_20200409T035736\_C001 Topography (1) 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\_GOP\_2\_ 20200409T035736\_20200409T044713\_C001 Topography (1) Topography height (solution 1) for one or more records iviean Sea Surrace (1), iviean Dynamic I nere is an error with the ivi55 neight (solution 1) and the iviean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), the Total Geocentric Ocean Tide height CS\_OFFL\_SIR\_GOP\_2\_\_20200409T044713\_20200409T053650\_C001 (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Tide (GOT), Total Geocentric Ocean Tide (FFS) Non-Equilibrium Long Period for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20200409T053650\_20200409T062627\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) 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 Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records Tide (GOT) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20200409T080540\_20200409T085517\_C001 Topography (1) 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\_GOP\_2\_\_20200409T085517\_20200409T094454\_C001 Topography (1) 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\_GOP\_2\_\_20200409T094454\_20200409T103430\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20200409T103430\_20200409T112407\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20200409T112407 20200409T121344 C001 Topography (1) Topography height (solution 1) for one or more records ו nere is an error with the ואוס neight (solution ו) and the iviean שynamic iviean Sea Surface (1), iviean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), the Total Geocentric Ocean Tide height CS\_OFFL\_SIR\_GOP\_2\_\_20200409T121344\_20200409T130321\_C001 Tide (GOT), Total Geocentric Ocean (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Tide (FFS) Non-Equilibrium Long Period 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 GOP 2 20200409T130321 20200409T135258 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_20200409T135258\_20200409T144235\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height CS\_OFFL\_SIR\_GOP\_2\_\_20200409T144235\_20200409T153211\_C001 Topography (1), Total Geocentric Ocean Tide (GOT) (solution 1: GOT) 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\_GOP\_2\_\_20200409T153211\_20200409T162148\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20200409T162148\_20200409T171125\_C001 Topography height (solution 1) for one or more records Topography (1)

CS_OFFL_SIR_GOP_220200409T171125_20200409T180102_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_220200409T180102_20200409T185038_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_220200409T185038_20200409T194015_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_220200409T194015_20200409T202952_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200409T202952_20200409T211929_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_220200409T211929_20200409T220905_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200409T220905_20200409T225843_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200409T225843_20200409T234819_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
CS_OFFL_SIR_GOP_220200409T234819_20200410T003756_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic

#### **6.5 P2P Measurement Confidence Data Check**

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

**Number of products with errors:** 

4

## **6.6 P2P Measurement Quality Flag Check**

#### P2P Quality Flags (20Hz)

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

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

Number of products with errors: 29

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

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

Number of products with errors: 30

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

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

Number of products with errors: 30

## **6.8 P2P Ocean Retracking Quality Check**

# P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 29

## P2P Retracking Flags PLRM

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

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