

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

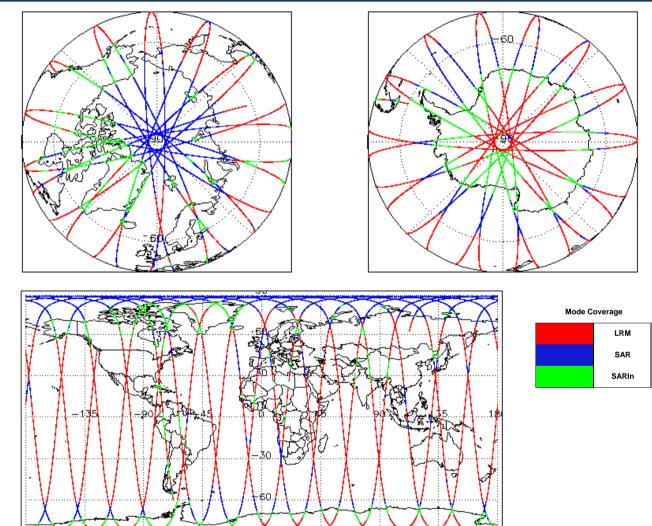
<u>18/06/2021</u>

eport Production:	18-Aug-2021	Check	L1 & L2	P2P
report Froduction.	18-Aug-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2 and 7.3

1. Overview

	Mission / Instrument News		
	17-Jun-2021	None	
	18-Jun-2021	None	
19-Jun-2021		Nothing planned	





## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

4.2 L1B Product Header Analysis
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the 11b_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: 0
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: 0
4.4 L1B Auxiliary Correction Error Check
CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors: 0
4.5 L1B Measurement Confidence Data Check
CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.
Number of products with errors: 0
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: 17

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210618T024037_20210618T030336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210618T101246_20210618T102313_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T003532_20210618T004044_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T104512_20210618T104637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T171154_20210618T171252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T202639_20210618T202730_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T202811_20210618T203222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T234449_20210618T234749_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210618T234822_20210618T235033_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T022201_20210618T022807_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T045532_20210618T045844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T102313_20210618T102458_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T135120_20210618T135847_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T182018_20210618T182627_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T223754_20210618T223957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T234015_20210618T234118_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210618T234347_20210618T234449_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. GOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

## 5.2 L2 Product Header Analysis

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

# 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.

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210618T022807_20210618T022906_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_20210618T003532_20210618T004044_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_20210618T012523_20210618T012822_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_20210618T013452_20210618T013740_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_20210618T021532_20210618T021908_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_20210618T040340_20210618T040415_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_20210618T040530_20210618T040647_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_20210618T053137_20210618T053303_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_20210618T063109_20210618T063414_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_20210618T080412_20210618T080719_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_20210618T081010_20210618T081352_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_20210618T094449_20210618T094723_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_20210618T103958_20210618T104116_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_20210618T111945_20210618T112604_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_20210618T121934_20210618T122141_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_20210618T130212_20210618T130347_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_20210618T131241_20210618T131441_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_20210618T135847_20210618T140332_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_20210618T145031_20210618T145301_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_20210618T162129_20210618T162521_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES). Non-Equilibrium Long Period	Inere is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20210618T171154_20210618T171252_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_20210618T180114_20210618T180427_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_20210618T193836_20210618T194300_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_20210618T194846_20210618T195005_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_20210618T202811_20210618T203222_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_20210618T212619_20210618T212806_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_20210618T221027_20210618T221128_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_20210618T230427_20210618T230653_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_20210618T234449_20210618T234749_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_20210618T234822_20210618T235033_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_20210618T004044_20210618T004659_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_20210618T021908_20210618T022201_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_20210618T022201_20210618T022807_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_GOPR_2_20210618T035601_20210618T040340_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_20210618T053531_20210618T054202_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_20210618T054202_20210618T054455_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_20210618T071348_20210618T072102_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_20210618T072102_20210618T072258_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_20210618T085518_20210618T090000_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_20210618T090000_20210618T090118_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_20210618T103318_20210618T103841_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_20210618T103841_20210618T103958_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_20210618T121517_20210618T121934_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_20210618T135059_20210618T135120_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_20210618T135120_20210618T135847_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_20210618T153138_20210618T153920_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_20210618T170156_20210618T170334_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_20210618T171252_20210618T172040_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_20210618T185223_20210618T190141_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_20210618T203223_20210618T204018_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_20210618T221128_20210618T221657_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_20210618T234016_20210618T234118_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_20210618T234347_20210618T234449_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20210618T235033_20210618T235733_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

# 5.5 L2 Measurement Confidence Data Check

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

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## 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.

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> 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_20210618T000921_20210618T001347_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_20210618T002451_20210618T002833_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_20210618T010338_20210618T012359_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_20210618T012822_20210618T013226_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_20210618T013923_20210618T021323_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_20210618T021445_20210618T021532_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_20210618T024037_20210618T030336_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_20210618T030613_20210618T031140_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_20210618T031147_20210618T031512_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_20210618T031849_20210618T035106_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_20210618T041418_20210618T041452_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_20210618T041607_20210618T043540_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_20210618T043805_20210618T044303_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_20210618T044616_20210618T045420_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_20210618T045844_20210618T053137_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_20210618T061442_20210618T062154_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_20210618T062552_20210618T063109_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_20210618T063756_20210618T065922_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_20210618T070207_20210618T071229_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_20210618T072258_20210618T072741_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_20210618T074223_20210618T074813_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_20210618T075001_20210618T080027_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_20210618T080719_20210618T081010_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_20210618T081728_20210618T084328_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_20210618T084507_20210618T085345_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_20210618T090622_20210618T091313_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_20210618T091326_20210618T093747_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_20210618T094723_20210618T094918_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_20210618T095137_20210618T095412_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_20210618T095644_20210618T100030_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_20210618T100122_20210618T101239_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_20210618T101246_20210618T102313_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_20210618T104116_20210618T104512_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_20210618T104637_20210618T110223_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_20210618T110842_20210618T111945_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_20210618T112859_20210618T113325_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_20210618T113613_20210618T115011_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_20210618T115151_20210618T115520_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_20210618T122840_20210618T123550_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_20210618T123713_20210618T130032_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_20210618T130347_20210618T131241_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_20210618T131538_20210618T133852_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_20210618T141620_20210618T143938_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_20210618T144605_20210618T145031_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_20210618T145451_20210618T152158_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_20210618T154735_20210618T161812_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_20210618T162521_20210618T163110_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_20210618T163340_20210618T165908_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_20210618T171018_20210618T171124_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_20210618T172348_20210618T175721_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_20210618T180427_20210618T180942_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_20210618T181628_20210618T182017_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_20210618T182627_20210618T182815_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_20210618T184659_20210618T185055_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_20210618T190141_20210618T191232_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_20210618T191518_20210618T193629_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_20210618T194300_20210618T194429_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_20210618T194436_20210618T194846_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_20210618T195317_20210618T200354_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_20210618T200517_20210618T201259_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_20210618T201354_20210618T201800_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_20210618T202415_20210618T202549_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_20210618T202549_20210618T202639_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_20210618T204018_20210618T204801_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_20210618T204940_20210618T211535_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_20210618T211801_20210618T212329_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_20210618T213432_20210618T214702_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_20210618T214735_20210618T220430_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_20210618T220840_20210618T221026_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_20210618T222813_20210618T223754_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_20210618T223957_20210618T225439_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_20210618T225729_20210618T230227_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_20210618T230305_20210618T230427_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_20210618T231132_20210618T232225_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_20210618T232229_20210618T232256_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_20210618T232829_20210618T234015_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_GOPN_2_20210618T103958_20210618T104116_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_20210618T000239_20210618T000245_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_20210618T035601_20210618T040340_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_20210618T065922_20210618T070207_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210618T110223_20210618T110436_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.

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Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20210618T000245_20210618T000344_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_20210618T000633_20210618T000921_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_20210618T001348_20210618T001850_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_20210618T003532_20210618T004044_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_20210618T005632_20210618T010017_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_20210618T013452_20210618T013740_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_20210618T021323_20210618T021445_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_20210618T021532_20210618T021908_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_20210618T030458_20210618T030613_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_20210618T031512_20210618T031633_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_20210618T035106_20210618T035601_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_20210618T040530_20210618T040647_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_20210618T045420_20210618T045532_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_20210618T053137_20210618T053303_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_20210618T054735_20210618T054858_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_20210618T055313_20210618T055330_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_20210618T055413_20210618T055557_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_20210618T060509_20210618T060626_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_20210618T074002_20210618T074223_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_20210618T080412_20210618T080719_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_20210618T081010_20210618T081352_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_20210618T085500_20210618T085518_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_20210618T090118_20210618T090450_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_20210618T094449_20210618T094723_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_20210618T094918_20210618T095137_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_20210618T095412_20210618T095544_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_20210618T102458_20210618T102707_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_20210618T110436_20210618T110453_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_20210618T110736_20210618T110842_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_20210618T111945_20210618T112604_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_20210618T121507_20210618T121517_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_20210618T122240_20210618T122509_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_20210618T122717_20210618T122840_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_20210618T134833_20210618T135005_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_20210618T140428_20210618T140550_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_20210618T144458_20210618T144605_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_20210618T145031_20210618T145301_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_20210618T162129_20210618T162521_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_20210618T170711_20210618T170834_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_20210618T170945_20210618T171018_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_20210618T171154_20210618T171252_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_20210618T172228_20210618T172348_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_20210618T180942_20210618T181055_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_20210618T183045_20210618T183103_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_20210618T193836_20210618T194300_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_20210618T194846_20210618T195005_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_20210618T201259_20210618T201354_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_20210618T202811_20210618T203222_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_20210618T211640_20210618T211801_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_20210618T220725_20210618T220840_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_20210618T222453_20210618T222618_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_20210618T232349_20210618T232410_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_20210618T232457_20210618T232615_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_20210618T232615_20210618T232829_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_20210618T234449_20210618T234749_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_20210618T234822_20210618T235033_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_20210618T004044_20210618T004659_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_20210618T004718_20210618T004756_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_20210618T013740_20210618T013923_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_20210618T021908_20210618T022201_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_20210618T022201_20210618T022807_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_20210618T030336_20210618T030458_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_20210618T031633_20210618T031849_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_20210618T035601_20210618T040340_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_20210618T040648_20210618T040818_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_20210618T053531_20210618T054202_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_20210618T054202_20210618T054455_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_20210618T054858_20210618T054947_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_20210618T055557_20210618T055635_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

ADDER ADDR ADDR ADDR ADDR ADDR ADDR ADDR	CS_OFFL_SIR_GOPR_2_20210618T061124_20210618T061425_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
D2     OPTL_BIN_COPN_2_20210011020141 20210011112201_OPTL     Data Alterus Revg. SBN, SDV and Revg. SBN, SDV an	CS_OFFL_SIR_GOPR_2_20210618T062154_20210618T062426_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CG 071: SR 00R 2: 201001170132_201001107228_001     and Backsone Cuby PR6, COS     and CoS and Cos	CS_OFFL_SIR_GOPR_2_20210618T063414_20210618T063756_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Cit. GPE: SR: COPE 2. 2010811107102. 2010811107102. 2010811107102. 2011 Cit. GPE: SR: COPE 2. 2010811107102. 2010811108102 CO1 Cit. GPE: SR: COPE 2. 2010811108027 2010811108102 CO1 Cit. GPE: SR: COPE 2. 2010811108027 2010811108102 CO1 Cit. GPE: SR: COPE 2. 2010811108027 2010811108102 CO1 Cit. GPE: SR: COPE 2. 2010811108102. 2010811108102. CO1 Cit. GPE: SR: COPE 2. 2010811108102. 2010811108102. CO1 Cit. GPE: SR: COPE 2. 2010811108102. 2010811108102. CO1 Cit. GPE: SR: COPE 2. 20108111108102. CO10 Cit. GPE: SR: COPE 2. 20108111108102. CO10 Cit. GPE: SR: COPE 2. 20108111108102. CO10 Cit. GPE: SR: COPE 2. 20108111108202. CO10811108102. CO10 Cit. GPE: SR: COPE 2. 20108111108202. CO108111108102. CO10 Cit. GPE: SR: COPE 2. 20108111108202. CO108111108202. CO10811108002. CO108111	CS_OFFL_SIR_GOPR_2_20210618T071348_20210618T072102_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CPTL SR. DOPE 2 3201061170207 2010611703012 C001     PED SR. DOPE 2 32010611703012 C001011703012 C001     PED SR. DOPE 2 32010611703103 C001011703012 C001     PED SR. DOPE 2 32010611703103 C001011703012 C001     PED SR. DOPE 2 32010611703012 C001     PED SR. DOPE 2 3201061703012 C0010117030116 C001     PED SR. DOPE 2 3201061703012 C0010117030116 C001     PED SR. DOPE 2 3201061703048 C001     PED SR. DOPE 2 320106170304     PED	CS_OFFL_SIR_GOPR_2_20210618T072102_20210618T072258_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C1_OFT_BR_OPP_2_2021018101303_202101110143_2_0001     Imm Redecater Cubity FRA OCTA Imm Redecater Cu	CS_OFFL_SIR_GOPR_2_20210618T080027_20210618T080412_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
eds. DFTL_SRF_QOPR_2_202109517031472_202109517031720_2021     prof_blackstetic Caliby FLBAL_CODE     prof_blackstetic Caliby FLBAL	CS_OFFL_SIR_GOPR_2_20210618T081353_20210618T081425_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB. OFTL_SR_GOPR_2.20210018T00000_20210018T000014_C001 Intel Networks Team of Backaceter Coulty Figure Networks Team of Cou	CS_OFFL_SIR_GOPR_2_20210618T081457_20210618T081728_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFTL_SR_GOPR_2_20210616T00000_02/2010616T000114_CO01     Amount Rungs on Bookscatter Quality Flags Number Setter State     CB_OFTL_SR_GOPR_2_20210616T000747_20210616T00044, CO01     Amount Rungs on Bookscatter Quality Flags Number Setter     State     CB_OFTL_SR_GOPR_2_20210616T000747_20210616T00044, CO01     CD00     Amount Rungs on Bookscatter Quality     Flags     State     CD00     Amount Rungs     State     CD00     Amount     CD00	CS_OFFL_SIR_GOPR_2_20210618T085518_20210618T090000_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210616T103316_20210616T1010456_C001  CG_OFFL_SIR_GOPR_2_20210616T10223_20210616T1101456_C001  CG_OFFL_SIR_GOPR_2_20210616T1101456_C001  CG_OFFL_SIR_GOPR_2_20210616T1101456_C001  CG_OFFL_SIR_GOPR_2_20210616T121330_20210616T12330_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210616T135312_20210	CS_OFFL_SIR_GOPR_2_20210618T090000_20210618T090118_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SR_GOPR_2_202106181103316_20210618110341_C001         and Backscater Quality PLRN, QCOG Almeter Range and Backscater Quality Flags have been set for one or more records.           CB_OFFL_SR_GOPR_2_202106181110223_202106181110438_C001         CCOG Almeter Range Quality PLRN, CCOG Almeter Range Alme	CS_OFFL_SIR_GOPR_2_20210618T093747_20210618T094449_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_GOPR_2_202106181120568_202106181120727_C001 OCOG Backscatter Quality PLRM, CGS_OFFL_SR_GOPR_2_202106181120568_202106181120727_C001 OCOG Backscatter Quality PLRM, CGS_OFFL_SR_GOPR_2_20210618112130_20210618112140_C001 Attimeter Range SSH_SKIWH and Backscatter Quality PLRM, CGG Attimeter Range SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618112130_20210618112144_0_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618113512_0_202106181135447_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618113512_0_202106181135447_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618113512_0_202106181135447_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618113512_0_202106181135447_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618113512_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618115312_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618115312_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618115312_C001 Decan Attimeter Range, SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618115312_C001 Decan Attimeter Range SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_20210618115312_C001 Decan Attimeter Range SSH_SKIWH and Backscatter Quality Flags have been set for one or more records. CGS_OFFL_SR_GOPR_2_202106	CS_OFFL_SIR_GOPR_2_20210618T103318_20210618T103841_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US_OPEL_SIR_GOPR_2_202106181120192_0001         COCOB Backscater Quality Find         more records.           CS_OPFL_SIR_GOPR_2_202106181121330_202106181121440_C001         Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG PLINM         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG PLINM           CS_OFFL_SIR_GOPR_2_202106181121517_202106181121934_C001         Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG PLINM         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG PLINM           CS_OFFL_SIR_GOPR_2_202106181135120_20210618113547_C001         Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NCCOG Altimeter Range, SSHA, SWH and Backscatter Quality Finds, NMCCOG Altimeter Range and Backscatter Quali	CS_OFFL_SIR_GOPR_2_20210618T110223_20210618T110436_C001		
CS_OFFL_SIR_GOPR_2_20210618T121330_20210618T12140_C001         and Backscatter Quality FLRM_OCOG         and the OCOG Altimeter Range and Stackscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_GOPR_2_20210618T121517_20210618T121934_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_GOPR_2_20210618T135120_20210618T135847_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_GOPR_2_20210618T135120_20210618T135847_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_GOPR_2_20210618T133832_0210618T144149_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_GOPR_2_20210618T153138_20210618T153124_C001         OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_GOPR_2_20210618T17034_20210618T17034_C001         OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been at for one or more records. </td <td>CS_OFFL_SIR_GOPR_2_20210618T120658_20210618T120727_C001</td> <td>OCOG Backscatter Quality</td> <td></td>	CS_OFFL_SIR_GOPR_2_20210618T120658_20210618T120727_C001	OCOG Backscatter Quality	
GS_OFFL_SIR_GOPR_2_20210618T121517_20210618T12134_C001       and Backscatter Quality PLEM_OCG       Inter Oxdent Analysis Shrk, SWH and Backscatter Quality PLEM_OCG         CS_OFFL_SIR_GOPR_2_20210618T135120_20210618T135847_C001       Attender Range, SSHA, SWH and Backscatter Quality PLEM_OCGG       The Oxdent Analysis Frage, SSHA, SWH and Backscatter Quality PLEM_OCGG         CS_OFFL_SIR_GOPR_2_20210618T143938_20210618T144149_C001       Attender Range, SSHA, SWH and Backscatter Quality PLEM, OCGG       The Oxdent Analysis Frage, SSHA, SWH and Backscatter Quality Flags atto for our or more records.         CS_OFFL_SIR_GOPR_2_20210618T143938_20210618T144149_C001       Otcom Alimeter Range, SSHA, SWH and Backscatter Quality PLEM, OCCG Attender Range, and Backscatter Quality Flags have been at for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T153124_C001       OCCG Alimeter Range Cuality PLEM, OCCG Backscatter Quality PLEM, OCCG Attender Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T153124_C001       Occean Alimeter Range, SSHA, SWH and Backscatter Quality PLEM, OCCG Backscatter Quality PLEM, OCCG Backscatter Quality PLEM, OCCG Backscatter Quality PLEM, OCCG Alimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T170156_20210618T170334_C001       OCCGA Alimeter Range Quality PLEM, OCCG Backscatter Quality PLEM, OCCG Back	CS_OFFL_SIR_GOPR_2_20210618T121330_20210618T121440_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_GOPR_2_20210618T135120_20210618T13542_C001       and Backscatter Quality PLM, QCOG Altmeter Range and Backscatter Quality PLRM       In the QCOB Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T143338_20210618T144149_C001       Ocean Altmeter Range, SSHA, SWH and Backscatter Quality Flags Altmeter Range and Backscatter Quality PLRM, QCOG Altmeter 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_GOPR_2_20210618T153138_20210618T153124_C001       CCGG Altmeter Range, SSHA, SWH and Backscatter Quality PLRM, COG Backscatter Quality PLRM, QCOG Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T153138_20210618T153124_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, COG Backscatter Quality PLRM, COG Backscatter Quality PLRM, COG Batkscatter Quality PLRM, COG Batkscatter Quality PLRM, COG Batkscatter Quality PLRM, COG Batkscatter Quality PLRM, COG Backscatter Quality PLRM, COG COG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPR_2_20210618T121517_20210618T121934_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210618T143338_20210618T144149_C001       and Backscatter Quality PLRM, CCOG Alimeter Range and Backscatter Quality PLRM       inter CCOG Alimeter Range and Backscatter Quality PLRM         CS_OFFL_SIR_GOPR_2_20210618T1532924_20210618T153124_C001       OCCGG Alimeter Range and Backscatter Quality PLRM       The OCCG Range and Backscatter Quality PLRM       The OCCG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T153138_20210618T153292_C001       Ocean Alimeter Range and Backscatter Quality PLRM       The OCCG Range and Backscatter Quality Flags and the OCCG Alimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Alimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T170156_20210618T170334_C001       OCCG Alimeter Range Quality PLRM, OCCG Backscatter Quality       The OCCG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T170835_20210618T17084_C001       OCCG Alimeter Range Quality PLRM, OCCG Backscatter Quality       The OCCG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T175721_20210618T175721_20210618T176721_20210618T180114_C001       OCCG Alimeter Range Albackscatter Quality PLRM       The OCCG Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T18118114_C001       OCCG Alimet	CS_OFFL_SIR_GOPR_2_20210618T135120_20210618T135847_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_202106181152924_202106181153124_0001       OCCG Backscatter Quality       nore records.         CS_OFFL_SIR_GOPR_2_202106181153138_202106181153320_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T180164_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, OCCG Altimeter Range and	CS_OFFL_SIR_GOPR_2_20210618T143938_20210618T144149_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210618T153138_20210618T153920_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T170156_20210618T170334_C001       OCOG Attimeter 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_20210618T170835_20210618T170904_C001       OCOG Attimeter 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_20210618T172144_20210618T172228_C001       OCOG Attimeter 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_20210618T175721_20210618T180114_C001       OCean Attimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Range and Backscatter Quality Flags nore records.         CS_OFFL_SIR_GOPR_2_20210618T175721_20210618T18114114_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Attimeter Range, SSHA, SWH and Backscatter Quality       The OCEG Attimeter Rang	CS_OFFL_SIR_GOPR_2_20210618T152924_20210618T153124_C001	OCOG Backscatter Quality	
CS_OFFL_SIR_GOPR_2_202106181170136_202106181170334_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPR_2_202106181170835_202106181170904_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_202106181172144_202106181172228_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_202106181175721_202106181180114_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_GOPR_2_20210618T153138_20210618T153920_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_202106181170835_202106181170904_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPR_2_202106181172144_202106181172228_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_202106181175721_202106181180114_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_GOPR_2_202106181181056_202106181181314_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_202106187181048_2022106187182018_2022106187182018_2021061871820	CS_OFFL_SIR_GOPR_2_20210618T170156_20210618T170334_C001		
CS_OFFL_SIR_GOPR_2_20210618T172144_20210618T172228_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPR_2_20210618T175721_20210618T180114_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T181314_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T181314_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T181314_C001       Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T181314_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20210618T170835_20210618T170904_C001		
CS_OFFL_SIR_GOPR_2_20210618T175721_20210618T180114_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality       Interformation of the Ocean Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags and t	CS_OFFL_SIR_GOPR_2_20210618T172144_20210618T172228_C001		
CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T181314_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been PLRM OCOG Attimeter 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.	CS_OFFL_SIR_GOPR_2_20210618T175721_20210618T180114_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20210618T181056_20210618T181314_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20210618T182018_20210618T182627_C001		

CS_OFFL_SIR_GOPR_2_20210618T184413_20210618T184659_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_20210618T185055_20210618T185219_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_20210618T185223_20210618T190141_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_20210618T193629_20210618T193836_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_20210618T195006_20210618T195317_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_20210618T203223_20210618T204018_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_20210618T212806_20210618T213432_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_20210618T214703_20210618T214735_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_20210618T221128_20210618T221657_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_20210618T223754_20210618T223957_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_20210618T225440_20210618T225546_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_20210618T230653_20210618T230934_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_20210618T235033_20210618T235733_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.						
Number of products with errors: 200						
5.8 L2 Ocean Retracking Quality Check						

#### L2 Retracking Flags (20Hz)

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

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

#### Number of products with errors:

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

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

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

53

156

0

0

#### Number of products with errors:

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

#### 6.3 P2P Auxiliary Data File Usage Check

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

#### 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

roduct	Test Failed	Description
S_OFFL_SIR_GOP_2_20210617T235321_20210618T004257_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
S_OFFL_SIR_GOP_2_20210618T004257_20210618T013236_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
S_OFFL_SIR_GOP_2_20210618T013236_20210618T022212_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
S_OFFL_SIR_GOP_2_20210618T022212_20210618T031151_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide heigh (solution 1: GOT) for one or more records
S_OFFL_SIR_GOP_2_20210618T031151_20210618T040127_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
S_OFFL_SIR_GOP_2_20210618T040127_20210618T045106_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
S_OFFL_SIR_GOP_2_20210618T045106_20210618T054041_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
S_OFFL_SIR_GOP_2_20210618T054041_20210618T063020_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
S_OFFL_SIR_GOP_2_20210618T063020_20210618T071956_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
S_OFFL_SIR_GOP_2_20210618T071956_20210618T080935_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
S_OFFL_SIR_GOP_2_20210618T080935_20210618T085911_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
S_OFFL_SIR_GOP_2_20210618T085911_20210618T094849_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
S_OFFL_SIR_GOP_2_20210618T094849_20210618T103825_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
S_OFFL_SIR_GOP_2_20210618T103825_20210618T112804_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide heigh (solution 1: GOT) for one or more records
S_OFFL_SIR_GOP_2_20210618T112804_20210618T121740_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
S_OFFL_SIR_GOP_2_20210618T121740_20210618T130719_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
S_OFFL_SIR_GOP_2_20210618T130719_20210618T135655_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
S_OFFL_SIR_GOP_2_20210618T135655_20210618T144634_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
S_OFFL_SIR_GOP_2_20210618T144634_20210618T153609_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
S_OFFL_SIR_GOP_2_20210618T153609_20210618T162548_C001	Mean Sea Surtace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES). Non-Equilibrium Long Period	I here is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
S_OFFL_SIR_GOP_2_20210618T162548_20210618T171524_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
S_OFFL_SIR_GOP_2_20210618T171524_20210618T180503_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
S_OFFL_SIR_GOP_2_20210618T180503_20210618T185439_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
S_OFFL_SIR_GOP_2_20210618T185439_20210618T194418_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
S_OFFL_SIR_GOP_2_20210618T194418_20210618T203353_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide heigh (solution 1: GOT) for one or more records
S_OFFL_SIR_GOP_2_20210618T203353_20210618T212332_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
S_OFFL_SIR_GOP_2_20210618T212332_20210618T221308_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
S_OFFL_SIR_GOP_2_20210618T221308_20210618T230247_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height

CS_OFFL_SIR_GOP_2_20210618T235223_20210619T004202_C002 Topography (1)						
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:	0					
6.6 P2P Measurement C	uality Flag Check					
P2P Quality Flags (20Hz)						
CryoSat P2P data includes Quality	Flags for each 20 Hz, 20 Hz PLF	RM and 1 Hz measurement record	d, copied from the correspo	nding L2 products.		
Since the P2P Quality Flags are						
Number of products with errors:						
•						
P2P Quality Flags (20Hz P Since the P2P Quality Flags are of		ality Flags, please see Section !	5.6 for the full list of produ	icts affected.		
Number of products with errors:						
P2P Quality Flags (1 Hz &						
Since the P2P Quality Flags are	· · · · · · · · · · · · · · · · · · ·	ality Flags, please see Section !	5.6 for the full list of produ	icts affected.		
Number of products with errors:						
6.8 P2P Ocean Retracki	ng Quality Check					
P2P Retracking Flags (20)		) for each 20 Hz machine	oord The hit value -fation		st	
Cryosat P2P data includes an ocea Ocean Retracking Quality Flag (I					51.	
		or products GOPR and GOPN pr	oducis over sea ice, but this	s is to be expected.		
Number of products with errors:	26					
P2P Retracking Flags PLRM						
CryoSat L2 data includes an ocear	n retracking quality flag for each 2					
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I	n retracking quality flag for each 2 PLRM): This flag is currently set f					
CryoSat L2 data includes an ocear	n retracking quality flag for each 2 PLRM): This flag is currently set f					
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I	n retracking quality flag for each 2 PLRM): This flag is currently set f	for products GOPR and GOPN pr	oducts over sea ice, but this			
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I	n retracking quality flag for each 2 PLRM): This flag is currently set f	for products GOPR and GOPN pr				
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q	n retracking quality flag for each 2 PLRM): This flag is currently set f 30	for products GOPR and GOPN pr 7. GOP QCC R	roducts over sea ice, but this Report Analysis	s is to be expected.	list of the tests which raised errors or	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q	n retracking quality flag for each 2 PLRM): This flag is currently set f 30	for products GOPR and GOPN pr 7. GOP QCC R	roducts over sea ice, but this Report Analysis	s is to be expected.	list of the tests which raised errors or No. Errors	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC() facility performs a primary su No. Products 159	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports 159	Report Analysis	s is to be expected. DS and LTA processing facilities. A No. Warnings 157	No. Errors 0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports	Report Analysis	s is to be expected. DS and LTA processing facilities. A	No. Errors	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM2	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports 159 114 109 159	Report Analysis V after production by the PD No. Valid 2 0 2 106	s is to be expected. DS and LTA processing facilities. A No. Warnings 157 114 107 53	No. Errors           0           0           0           0           0           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B SIR_GOPM_2 SIR_GOPM_2 SIR_GOPM_2	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC() facility performs a primary su No. Products 159 114 159 159 114	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports 159 114 109 159 114	Report Analysis ly after production by the PD No. Valid 2 0 106 28	s is to be expected. PS and LTA processing facilities. A No. Warnings 157 114 107 53 86	No. Errors           0           0           0           0           0           0           0           0           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPN1B SIR_GOPM1B SIR_GOPM2	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports 159 114 109 159	Report Analysis V after production by the PD No. Valid 2 0 2 106	s is to be expected. DS and LTA processing facilities. A No. Warnings 157 114 107 53	No. Errors           0           0           0           0           0           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPN1B SIR_GOPM2 SIR_GOPM_2 SIR_GOPM_2 SIR_GOPM2 SIR_GOP_P2P	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports 159 114 109 159 114 109	Report Analysis No. Valid C C C C C C C C C C C C C C C C C C C	s is to be expected. DS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67	No. Errors 0 0 0 0 0 0 0 0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPN1B SIR_GOPM2 SIR_GOPN_2 SIR_GOPN_2	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29	for products GOPR and GOPN products GOPR and GOPN products of data products immediately            No. QCC Reports           159           114           109           159           114           109           29	Report Analysis No. Valid 2 0 2 106 28 42	s is to be expected. DS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67	No. Errors 0 0 0 0 0 0 0 0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM_2 S	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29	for products GOPR and GOPN products GOPR and GOPN products of data products immediately            No. QCC Reports           159           114           109           159           114           109           29	Report Analysis No. Valid 2 0 2 106 28 42	s is to be expected. DS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67	No. Errors 0 0 0 0 0 0 0 0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPN3 SIR_GOPN	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC() facility performs a primary su No. Products 159 114 109 159 114 109 29 Drs: 0	for products GOPR and GOPN products GOPR and GOPN products GOPR and GOPN products immediated urvey of data products immediated 159 114 109 159 114 109 29	Report Analysis Report Analysis ly after production by the PD No. Valid 2 0 2 106 28 42 0	s is to be expected. DS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67 29	No. Errors 0 0 0 0 0 0 0 0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN2 SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN3 SIR_SIN S	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 ors: 0 rnings 2263	for products GOPR and GOPN pr <b>7. GOP QCC R</b> urvey of data products immediatel No. QCC Reports 159 114 109 159 114 109 29 Total num MVIOEPNCDF	A constraints over sea ice, but this constraints over sea ice, but the constraints	s is to be expected. PS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67 29 h warning RBSZOPOEPFDNCDF RBSZOPOE	DEPFDPLRMNCD RBSZOPOEPNCDF	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM3 SIR_GOPM	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 ors: 0 rnings 2263	for products GOPR and GOPN products GOPR and GOPN products GOPR and GOPN products immediated urvey of data products immediated 159 114 109 159 114 109 29 Total num MVIOEPNCDF 0	No. Valid       2       0       2       106       28       42       0	s is to be expected. PS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67 29 h warning	No. Errors 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM1 SIR_GOPM	retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 cors: 0 0 mings 2263 DF MVIOEPFDNCDF 0 39 0	for products GOPR and GOPN products GOPR and GOPN products of data products immediated urvey of data products immediated 159 114 109 159 114 109 29 159 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 100 150 114 100 150 114 114 100 150 114 114 100 150 114 114 100 150 114 114 100 150 114 114 100 114 114 100 150 114 114 100 114 114 100 114 114 100 114 114	No. Valid       2       0       2       106       28       42       0	s is to be expected. DS and LTA processing facilities. A DS and LTA processing facilities. A No. Warnings 157 114 107 53 86 67 29 A b warning RBSZOPOEPFDNCDF RBSZOPOE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B SIR_GOPN2 SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN_2 SIR_GOPN2 SIR_GOPN2 Number of QCC reports with error 7.2 QCC Warnings Number of QCC reports with error SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B OSIR_GOPN2 0	retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC() facility performs a primary su No. Products 159 114 109 29 Drs: 0 rnings 2263 DF MVIOEPFDNCDF 0 39 0 6	for products GOPR and GOPN pr 7. GOP QCC R urvey of data products immediatel No. QCC Reports 159 114 109 159 114 109 29 Total num MVIOEPNCDF 0 42 0 38	No. Valid       2       0       2       106       28       42       0	s is to be expected.  SS and LTA processing facilities. A  No. Warnings 157 114 107 53 86 67 29  h warning RBSZOPOEPFDNCDF RBSZOPO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0           20	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM3 Number of QCC reports with error 7.2 QCC Warnings Number of QCC reports with error SIR_GOPM1B SIR_GOPM1B 157 SIR_GOPM1B 105	retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 cors: 0 0 mings 2263 DF MVIOEPFDNCDF 0 39 0	for products GOPR and GOPN products GOPR and GOPN products of data products immediated urvey of data products immediated 159 114 109 159 114 109 29 159 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 109 29 150 114 100 150 114 100 150 114 114 100 150 114 114 100 150 114 114 100 150 114 114 100 150 114 114 100 114 114 100 150 114 114 100 114 114 100 114 114 100 114 114	No. Valid       2       0       2       106       28       42       0	s is to be expected.  SS and LTA processing facilities. A  No. Warnings 157 114 107 53 86 67 29  h warning RBSZOPOEPFDNCDF RBSZOPO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOP_22 Vumber of QCC reports with error 7.2 QCC Warnings Number of QCC reports with error 7.2 QCC Warnings Number of QCC reports with error SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 0	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 Drs: 0 mings 2263 DF MVIOEPFDNCDF 0 39 0 6 0 40	for products GOPR and GOPN pro- <b>7. GOP QCC R</b> urvey of data products immediated No. QCC Reports 159 114 109 159 114 109 29 <b>Total num</b> MVIOEPNCDF 0 42 0 38 0 48	No. Valid       2       0       2       106       28       42       0	A is to be expected.	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0           20           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM3 Number of QCC reports with error 7.2 QCC WarningS Number of QCC reports with error SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM1B SIR_GOPM2 SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM3 SIR_G	n retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 Drs: 0 CC) facility performs a primary su 0 0 0 0 0 0 0 0 0 0 0 0 0	for products GOPR and GOPN pro- <b>7. GOP QCC R</b> urvey of data products immediated No. QCC Reports 159 114 109 159 114 109 29 <b>Total num</b> MVIOEPNCDF 0 42 0 38 0 48	No. Valid         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         2         0         2         0         2         0         2         0         2         2         2         2         2         2         2         2         2         2         2         2         2         2	A is to be expected.	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0           20           0           24	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 Number of QCC reports with error 7.2 QCC WarningS Number of QCC reports with error 7.2 QCC WarningS Number of QCC reports with error SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B SIR_GOPR1B SIR_GOPR1B SIR_GOPN1B SIR_GOPM2 SIR_GOPM1B SIR_GOP	retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 Pres: 0 rmings 2263 F MVIOEPFDNCDF 0 33 F 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	for products GOPR and GOPN products GOPR and GOPN products of the second state of the	No. Valid       Report Analysis       ty after production by the PD       No. Valid       2       0       28       42       0	No. Warnings           157           114           107           53           86           67           29	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0           20           0           24           DISINNCDF           RPEPOPLRMNCDF           0           29	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOP.2 SIR_GOP.2 SIR_GOP.2 SIR_GOP.2 SIR_GOP.2 SIR_GOPM1B 157 SIR_GOPM1B 155 SIR_GOPM1B 105 SIR_GOPM1B 105 SIR_GOPM1B 111 SIR_GOPM2 0 SIR_GOPM2 0 SIR_GOPM1B 111 SIR_GOPM2 0 SIR_GOPM1B 111 SIR_GOPM2 0 SIR_GOPM1B 111 SIR_GOPM2 0 SIR_GOPM1B 105 SIR_GOPM1B 105 SIR_GOPM2 10 SIR_GOPM1B 10 SIR_GOPM2 10 SIR_GOPM1B 10 SIR_GOPM2 10 SIR_GOPM1B 10 SIR_SIR_SIR_SIR_SIR_SIR_SIR_SIR_SIR_SIR_	netracking quality flag for each 2         PLRM): This flag is currently set f         30         CC) facility performs a primary su         159         114         109         159         114         109         29         Drs:       0         39         0         39         0         39         0         39         0         39         0         0         39         0         6         0         39         0         39         0         39         0         33         0         33         0         33         0	for products GOPR and GOPN products GOPR and GOPN products of data products immediated urvey of data products immediated 159 159 114 109 29 Total num MVIOEPNCDF 0 42 0 38 0 48 KCDF RPEPOPFDPLRMSARNCC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Best of occurrences of eac       MVIONCDF       0	No. Warnings           157           114           107           53           86           67           29	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0           20           0           24           DISINNCDF           RPEPOPLRMNCDF           0           29           0	
CryoSat L2 data includes an ocear Ocean Retracking Quality Flag (I Number of products with errors: The Quality Control for CryoSat (Q warnings is provided below. Product type SIR_GOPM1B SIR_GOPM1B SIR_GOPM2 SIR_GOPM2 SIR_GOPM2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 SIR_GOPN2 Number of QCC reports with error 7.2 QCC WarningS Number of QCC reports with error 7.2 QCC WarningS Number of QCC reports with error SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPM1B SIR_GOPN1B SIR_GOPN1B SIR_GOPR1B SIR_GOPR1B SIR_GOPN1B SIR_GOPM2 SIR_GOPM1B SIR_GOP	retracking quality flag for each 2 PLRM): This flag is currently set f 30 CC) facility performs a primary su No. Products 159 114 109 159 114 109 29 Pres: 0 rmings 2263 F MVIOEPFDNCDF 0 33 F 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	for products GOPR and GOPN products GOPR and GOPN products of the second state of the	No. Valid         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         2         0         0         0         0         2         0	No. Warnings           157           114           107           53           86           67           29	No. Errors           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           34           0           20           0           24           DISINNCDF           RPEPOPLRMNCDF           0           29	

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	Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
	SIR_GOPM1B	0	0	0	0	0	0	0
	SIR_GOPM_2	0	0	9	30	0	4	40
	SIR_GOPN1B	0	0	0	0	0	0	0
	SIR_GOPN_2	0	32	17	43	54	27	25
	SIR_GOPR1B	0	0	0	0	0	0	0
	SIR_GOPR_2	49	0	2	65	43	6	40

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_GOPM1B	0	0	1	0	0	0	
SIR_GOPM_2	0	2	1	0	0	0	
SIR_GOPN1B	0	0	0	0	51	2	
SIR_GOPN_2	30	14	0	2	0	0	
SIR_GOPR1B	0	0	0	0	114	4	
SIR_GOPR_2	54	1	0	2	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	12	29	29	5	29	18	29
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDF	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	7	18	29	25	20	29	18
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	•
SIR GOP 2	20	29	20	14	29		

est Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)			
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample			
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter			

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

1

Product name No GOPX reports missing Product name CS\_OFFL\_SIR\_GOP\_2\_20210618T235223\_20210619T004202\_C002