

## 1. Overview

Report Production:	26-Jul-2022		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data		

Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.2

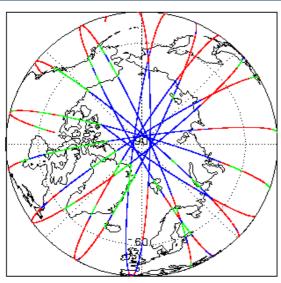
WISSION /			news
22 Jun 1	200	None	

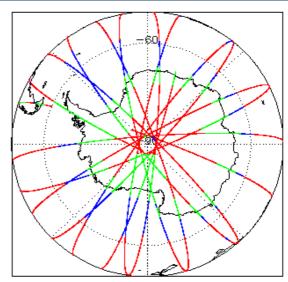
22-Jun-2022 Non-

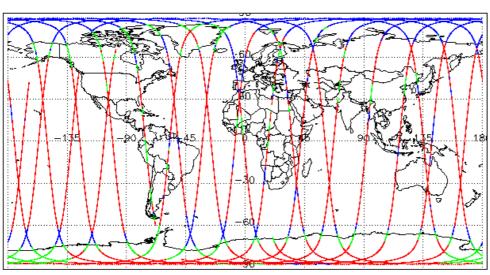
23-Jun-2022 unavailibility due to orbit manouevre 17:08:41-19:44:18

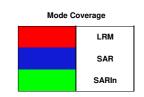
24-Jun-2022 Nothing planned

# 2. Global Coverage









## 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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:

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#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220623T040506_20220623T041817_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220623T154144_20220623T155318_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

15

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220623T060059_20220623T060411_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T035654_20220623T035851_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T093157_20220623T093643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T144200_20220623T144536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T162041_20220623T162200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T170029_20220623T170643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T225024_20220623T225041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220623T225238_20220623T225333_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220623T043711_20220623T044032_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220623T062126_20220623T062745_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220623T125430_20220623T130144_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220623T143602_20220623T144040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220623T161401_20220623T161918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220623T225333_20220623T230122_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 NetCDF product file (.nc).

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.

Number of products with errors:

0

## 5.4 L2 Auxiliary Correction Error Check

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

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

Number of products with errors:

See CPM_BIR COMM_2 accessed Topics of Secondaria (Secondaria Committee)  See CPM_BIR COMM_2 accessed Topics of Secondaria (Secondaria Committee)  See CPM_BIR COMM_2 accessed Topics of Secondaria (Secondaria Committee)  See CPM_BIR COMM_2 accessed Topics of Secondaria (Secondaria Committee)  See CPM_BIR COMM_2 accessed Topics of Secondaria (Secondaria Committee)  See CPM_BIR COMM_2 accessed Topics of Secondaria (Secondaria Committee)  Secondaria (Secondaria Committee)	Product	Test Failed	Description
Segment (1) Compagned to the company of the company		Mean Sea Surface (1), Total Geocentric	There is an error with the MSS height (solution 1) and the Total Geocentric
Segretary (1)  Transporting Ped I statuture for our more exceeds  Segretary (1)	CS_OFFL_SIR_GOPM_2_20220623T223813_20220623T223948_C001	Mean Dynamic Topography (1)	
Report Service Committee C	CS_OFFL_SIR_GOPN_2_20220623T003217_20220623T003538_C001		
Traggogy (1)  SECRET BRI COPN 2 20000003710400 (1000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN 2 2000003710400 (2000 Mem Province Traggogy (1)  SECRET BRI COPN	CS_OFFL_SIR_GOPN_2_20220623T012232_20220623T012430_C001		
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Topography (1)   Topography (2)   Topo	CS_OFFL_SIR_GOPN_2_20220623T030227_20220623T030334_C001		
Topocountry (1)  Topoco	CS_OFFL_SIR_GOPN_2_20220623T035654_20220623T035851_C001		
Topography (1)  Stopography (1)  Stopogr	CS_OFFL_SIR_GOPN_2_20220623T044032_20220623T044249_C001		
Generative Costant Tale (politics 1: GOT) for one or more records  See Deff. Sill. COPPL 2: 20200621197667. 20220623173090. O.001  Mean Dynamic Topography (solution 1) for one or more records.  Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 202206231737617. 20220623173990. O.001  Mean Dynamic Topography (solution 1) for one or more records.  There is an error with the Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173991. 20220623173990. O.001  Mean Dynamic Topography (i)  There is an error with the Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173991. 20220623173999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173999. O.0020623173999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records.  See Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records.  See Deff. Sill. COPPL 2: 20220623173999. O.002061713999. O.001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), M	CS_OFFL_SIR_GOPN_2_20220623T054322_20220623T054431_C001		
Sec. OFFL. SIRI. GOPN. 2. 202206237193612. 202206237193642. 2021  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for one armore records.  Mean Dynamic Topography (2)  There is an error with the Mean Dynamic Topography (solution 1) for one armore records.  There is an error with the Mean Dynamic Topography (solution 1) for one armore records.  Mean Dynamic Topography (2)  There is an error with the Mean Dynamic Topography (solution 1) for one armore records.  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for one armore records.  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one armore records.  Solven Sin GoPN 2. 202206231103542 (202206231103652 (2021) (2022031103652 (202206321103652 (202206321103652 (202206321103652	CS_OFFL_SIR_GOPN_2_20220623T061613_20220623T062126_C001		
Total Geocentric Cean Tide (GOT)  There is an error with the Mass Dynamic Topography (solution 1) and the Mean Dy	CS_OFFL_SIR_GOPN_2_20220623T070607_20220623T070910_C001	Mean Dynamic Topography (1)	
Total Geocentric Coean Tale (GOT)  Total Geocentric Coean Tale (GOT)  Total Geocentric Coean Tale (GOT)  There is an error with the Total Geocentric Coean Tale height (solution 1: GOT) for one or more records  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Man Dynamic Topography (1)  Topography	CS_OFFL_SIR_GOPN_2_20220623T071542_20220623T071823_C001	Mean Dynamic Topography (1)	
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SS-OFFL_SRI_GOPN_2_20220823T124151_20220823T124458_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (2)  Mean Sea Surface (1), Mean Dynamic Topography (2)  Mean Sea Surface (1), Mean Dynamic Topography (2)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (2)  Mean Sea Surface (1), Mean Dynamic Topography (3)  Mean Sea Surface (1), Mean Dynamic Topography (4)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (3)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (3)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (4)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (4)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1),	CS_OFFL_SIR_GOPN_2_20220623T093157_20220623T093643_C001	Total Geocentric Ocean Tide (GOT)	
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Topography (1)  Mean Sea Surface (1), Mean Dynamic Topogr	CS_OFFL_SIR_GOPN_2_20220623T134459_20220623T134807_C001		
Topography (1)  CS_OFFL_SIR_GOPN_2_20220623T162552_20220623T162502_CO01  Mean Seas Surface (1), Mean Dynamic Topography (1)  Mean Seas Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibriu	CS_OFFL_SIR_GOPN_2_20220623T135052_20220623T135435_C001		
CS_OFFL_SIR_GOPN_2_20220623T16252_20220623T162720_C001  Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) GOT one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (Solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_GOPN_2_20220623T234156_20220623T234509_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the 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_202206	CS_OFFL_SIR_GOPN_2_20220623T152531_20220623T152805_C001	Topography (1)	Topography height (solution 1) for one or more records
or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (GOT), Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (1) or one or more records  There is an error with the Mean Dynamic Topography (1) or one or more records  There is an error with the Mean Dynamic Topography (1) or one or more records  There is an error with the Mean Dynamic Topography (1) or one or more records  There is an error with the Mean Dynamic Topography (1) or one or more records  There is an error with the Mean Dynamic Topography (1) or one or more records  There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) or one or more record	CS_OFFL_SIR_GOPN_2_20220623T162041_20220623T162200_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
Topography (1) Topography (2) Topography (2) Topography (2) Topography (3) Topography (1) Topography (1) Topography (2) Topography (3) Topography (3) Topography (4) Topography (4) Topography (5) Topography (6) Topogr	CS_OFFL_SIR_GOPN_2_20220623T162552_20220623T162720_C001	Mean Dynamic Topography (1)	
Topography (1)  Topography (1)  Topography (2)  Topography (1)  Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) for one or more records  There is an error with the MSS height (solution 1) for one or more records  There is an error with the MSS height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the 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 Topography height (solution 1) and the 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  There is an error with the MSS height (solution 1) and the Mean Dynamic Topogr	CS_OFFL_SIR_GOPN_2_20220623T170029_20220623T170643_C001		
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more records  CS_OFFL_SIR_GOPN_2_20220623T225238_20220623T225333_C001  Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (e) There is an error with the Mean Dynamic Topography (e) to or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (e) the total Geocentric Ocean Tide (e) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (e) the total Geocentric Ocean Tide (e) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (e) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (f) the Total Geocentric Ocean Tide (e) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (f) the Total Geocentric Ocean Tide height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (f) the Total Geocentric Ocean Tide height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MS	CS_OFFL_SIR_GOPN_2_20220623T203111_20220623T203343_C001	Topography (1)	
CS_OFFL_SIR_GOPN_2_20220623T234155_20220623T234509_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (esolution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Total Geocentric Coean Tide (GOT)  There is an error with the MSS height (solution 1) and the Total Geocentric Coean Tide height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the 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  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220623T220211_20220623T220602_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
Topography (1) Topography (2 202206231234155 202206231234309 C001 Topography (1) Topography height (solution 1) for one or more records  Mean Dynamic Topography (1) Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (GOT)  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  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_20220623T225238_20220623T225333_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_GOPR_2_20220623T012430_20220623T013211_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  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1) and the 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  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the M	CS_OFFL_SIR_GOPN_2_20220623T234155_20220623T234509_C001		
Topography (1)  Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220623T235022_20220623T235136_C001	Mean Dynamic Topography (1)	
Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)  There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  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_20220623T012430_20220623T013211_C001		
Ocean Tide (GOT) Ocean Tide height (solution 1: GOT) for one or more records  CS_OFFL_SIR_GOPR_2_20220623T044249_20220623T044428_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the 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 Topography height (solution 1) for one or more records  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 Topography height (solution 1) and the	CS_OFFL_SIR_GOPR_2_20220623T030334_20220623T031044_C001		
Topography (1) Topography height (solution 1) for one or more records  CS_OFFL_SIR_GOPR_2_20220623T044428_20220623T044955_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), 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 There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D	CS_OFFL_SIR_GOPR_2_20220623T041817_20220623T042032_C001		
Topography (1) Topography height (solution 1) for one or more records  CS_OFFL_SIR_GOPR_2_202206231044426_202206231044395_C001  Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic  There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOPR_2_20220623T044249_20220623T044428_C001		
	CS_OFFL_SIR_GOPR_2_20220623T044428_20220623T044955_C001		
Topography (1)	CS_OFFL_SIR_GOPR_2_20220623T062126_20220623T062745_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_20220623T075950_20220623T080351_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_20220623T080352_20220623T080854_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_20220623T093643_20220623T094424_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_20220623T111611_20220623T112244_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_20220623T112244_20220623T112538_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_20220623T125313_20220623T125350_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPR_2_20220623T125430_20220623T130144_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_20220623T130144_20220623T130344_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_20220623T143603_20220623T144040_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_20220623T144040_20220623T144200_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_20220623T161401_20220623T161918_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_20220623T161918_20220623T162041_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_20220623T211220_20220623T212005_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_20220623T224234_20220623T224413_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_20220623T225333_20220623T230122_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220623T040506_20220623T041817_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220623T154144_20220623T155318_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220622T235544_20220623T000720_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220623T000726_20220623T002915_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	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_20220623T004459_20220623T010232_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220623T013325_20220623T020736_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
	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_20220623T022437_20220623T022636_C001	•	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220623T022641_20220623T025807_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

One Allerter Ruge, 6016, 5011	CS_OFFL_SIR_GOPM_2_20220623T025937_20220623T030227_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Sept FILE SOPH E 20200021004042 20200021004059, COVER 2010 Antique File South Antique Fil	CS_OFFL_SIR_GOPM_2_20220623T031044_20220623T032520_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
Security Conf., print, confined the confined prints of the confined	CS_OFFL_SIR_GOPM_2_20220623T033424_20220623T034715_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
So OFFL SRIF, GOPM 2 20200027164004 20200027104004 (20200227104004) Color Affares Progr. SSRIA, SWI and Bacecanter Caulty Flags trust before the Caulty Color Affares Flags and Bacecanter Caulty Flags trust before the Caulty Color Affares Flags and Bacecanter Caulty Flags trust before the Caulty Color Affares Flags and Bacecanter Caulty Flags trust before the Caulty Color Affares Flags and Bacecanter Caulty Flags trust before the Caulty Color Affares Flags and Bacecanter Caulty Flags trust before the Caulty Color Affares Flags and Bacecanter Caulty Flags an	CS_OFFL_SIR_GOPM_2_20220623T034922_20220623T035439_C001		
CS_OFFL_SIR_GOPM_2_2022623784050_2022623784000_0000  CS_OFFL_SIR_GOPM_2_2022623784050_2022623784000_0000  CS_OFFL_SIR_GOPM_2_2022623784050_2022623784000_0000  CS_OFFL_SIR_GOPM_2_2022623784000_00000  CS_OFFL_SIR_GOPM_2_2022623784000_00000000  CS_OFFL_SIR_GOPM_2_2022623784000_0000000000  CS_OFFL_SIR_GOPM_2_2022623784000_000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20220623T035458_20220623T035654_C001		
GB_OFFL_SRI_GOPM_2_9000000001004000_0000000000000000000000	CS_OFFL_SIR_GOPM_2_20220623T040506_20220623T041817_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SIR_COPM_2_20200620194395_20200620195102_COT and the Description Castly Flags have been additioned from cross the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from cross the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the CoCoC Alterise Flags and Backscatter Castly Flags have been additioned from the	CS_OFFL_SIR_GOPM_2_20220623T042032_20220623T043400_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscenter Cuality, COOG Attenueth Pange and Backscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records and packscenter Cuality Flags have been self or one or more records.  CS_OFFL_SIR_OOPM_2_202206237054915_20220623705492_COOI	CS_OFFL_SIR_GOPM_2_20220623T043504_20220623T043711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Beakscatter Quality, CODS Altereter Range and Backscatter Quality Flags have been after range and Backscatter Quality Flags have been set for one more records.  CS_OFFL_SIR_OOPM_2_20220623T058046_20220623T058351_C001  CS_OFFL_SIR_OOPM_2_20220623T058045_20220623T0583551_C001  CS_OFFL_SIR_OOPM_2_20220623T058045_20220623T0580552_C001  CS_OFFL_SIR_OOPM_2_20220623T058045_2001  CS_OFFL_SIR_OOPM_2_20220623T058052_20220623T0580552_C001  CS_OFFL_SIR_OOPM_2_20220623T058052_20220623T0580552_C001  CS_OFFL_SIR_OOPM_2_20220623T058052_20220623T0580552_C001  CS_OFFL_SIR_OOPM_2_20220623T058052_20220623T0580552_C001  CS_OFFL_SIR_OOPM_2_20220623T058054_20220623T0580552_C001  CS_OFFL_SIR_OOPM_2_20220623T058054_20220623T058054_C001  CS_OFFL_SIR_OOPM_2_20220623T058054_20220623T058054_C001  CS_OFFL_SIR_OOPM_2_20220623T058054_20220623T058054_C001  CS_OFFL_SIR_OOPM_2_20220623T058054_20220623T058054_C001  CS_OFFL_SIR_OOPM_2_20220623T058054_20220623T078054_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T078054_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064054_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064056_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064056_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064056_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T064056_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T065057_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T065057_20220623T07400_C001  CS_OFFL_SIR_OOPM_2_20220623T065057_20220623T06400_C001  CS_OFFL_SIR_OOPM_2_20220623T065057_20220623T06400_C001  CS_OFFL_SIR_OOPM_2_20220623T065057_20220623T06400_C001  CS_OFFL_SIR_OOPM_2_20220623	CS_OFFL_SIR_GOPM_2_20220623T045957_20220623T051022_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sackscatter Cuality  CS_OFFL_SIR_GOPM_2_20220823105418_02208231055529_0011  OSC Altimeter Range Ouality , COOG Backscatter Cuality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_202208231054929_20220823105498_0001  Altimeter Range and Backscatter Cuality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_202208231060099_20220823106411_C001  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatter Cuality Flags have been set for one or more records  Oscan Altimeter Range and Backscatt	CS_OFFL_SIR_GOPM_2_20220623T051201_20220623T052605_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscater Quality CS OFFL SIR GOPM 2 20220623T054929 20220623T055436 CO01  CS OFFL SIR GOPM 2 20220623T060059 20220623T065436 CO01  CS OFFL SIR GOPM 2 20220623T060059 20220623T06011 CO01  CS OFFL SIR GOPM 2 20220623T060059 20220623T060124 CO01  CS OFFL SIR GOPM 2 20220623T060059 20220623T060124 CO01  CS OFFL SIR GOPM 2 20220623T060534 20220623T070402 CO01  CS OFFL SIR GOPM 2 20220623T08004 20220623T074000 CO01  CS OFFL SIR GOPM 2 20220623T08004 20220623T084020 CO01  CS OFFL SIR GOPM 2 20220623T08004 20220623T084020 CO01  CS OFFL SIR GOPM 2 20220623T08004 20220623T084020 CO01  CS OFFL SIR GOPM 2 20220623T084058 20220623T085223 CO01  CS OFFL SIR GOPM 2 20220623T084058 20220623T085524 CO01  CS OFFL SIR GOPM 2 20220623T085027 20220623T085024 CO01  CC OGA Altmeter Range Cuality COCG  Altmeter Range and Backscatter Cuality Flags have been set to row or more records  CC OGA Altmeter Range and Backscatter Cuality Flags have been set to row or more records  CC OGA Altmeter Range and Backscatter Cuality Flags have been set to row or more records  CC OGA Altmeter Range and Backscatter Cuality Flags have been set to row or more records  CC OGA Altmeter Range and B	CS_OFFL_SIR_GOPM_2_20220623T052848_20220623T053351_C001		
and Backscatter Quality COCO Altimeter Range and Backscatter Quality Flags have been Set Occor Altimeter Range and Backscatter Quality Flags have been Set Occor Altimeter Range and Backscatter Quality Flags have been Set Occor Altimeter Range SHA. SWH and Backscatter Quality Flags have been Set Occor Altimeter Range SHA. SWH and Backscatter Quality Flags have been Set Occor Range Quality COCO Altimeter Range and Backscatter Quality Flags have been Set Occor Range SHA. SWH and Backscatter Quality Flags have been Set Occor Range Quality COCO Altimeter Range and Backscatter Quality Flags have been Set Occor Range Range SHA. SWH and Backscatter Quality Flags have been Set Occor Range Ran	CS_OFFL_SIR_GOPM_2_20220623T053415_20220623T053529_C001		
and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T084656_20220623T085523_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T095554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T095554_C001  CS_OFFL_SIR_GOPM_2_20220623T005552_2001  CS_OFFL_SIR_GOPM_2_20220623T005552_2001  CS_OFFL_SIR_GOPM_2_20220623T100554_20220623T09157_C001  CS_OFFL_SIR_GOPM_2_20220623T100554_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101606_C001  CS	CS_OFFL_SIR_GOPM_2_20220623T054929_20220623T055436_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T064423_20220623T070442_C001  CS_OFFL_SIR_GOPM_2_20220623T070410_20220623T070442_C001  CS_OFFL_SIR_GOPM_2_20220623T070910_20220623T071308_C001  CS_OFFL_SIR_GOPM_2_20220623T070910_20220623T071308_C001  CS_OFFL_SIR_GOPM_2_20220623T070910_20220623T074600_C001  CS_OFFL_SIR_GOPM_2_20220623T072005_20220623T074600_C001  CS_OFFL_SIR_GOPM_2_20220623T072005_20220623T074600_C001  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_C001  CS_OFFL_SIR_GOPM_2_20220623T0840688_20220623T084420_C001  CS_OFFL_SIR_GOPM_2_20220623T0840688_20220623T085232_C001  CS_OFFL_SIR_GOPM_2_20220623T0840688_20220623T085524_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T1085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T1085002_C001  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T1085002_C001  CS_OFFL_SIR_GOPM_2_20220623T1085024_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T1085024_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T108512_20220623T101606_C001  CS	CS_OFFL_SIR_GOPM_2_20220623T060059_20220623T060411_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T070910_20220623T071308_CO01  CS_OFFL_SIR_GOPM_2_20220623T072005_20220623T074600_CO01  CS_OFFL_SIR_GOPM_2_20220623T072005_20220623T074600_CO01  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_CO01  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_CO01  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T085223_CO01  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085223_CO01  CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T085554_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T093157_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T095602_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T095602_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T095602_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T095602_CO01  CS_OFFL_SIR_GOPM_2_20220623T085032_20220623T095602_CO01  CS_OFFL_SIR_GOPM_2_20220623T100554_20220623T101606_CO01  CS_OFFL_SIR_GOPM_2_20220623T100554_20220623T101606_CO01  CS_OFFL_SIR_GOPM_2_20220623T100554_20220623T101606_CO01  CS_OFFL_SIR_GOPM_2_20220623T101651_20220623T102346_CO01  CS_O	CS_OFFL_SIR_GOPM_2_20220623T060534_20220623T061244_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220623T072005_20220623T074600_C001  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_C001  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_C001  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T084202_C001  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085524_C001  CS_OFFL_SIR_GOPM_2_20220623T08529_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T095554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T095554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T0955602_C001  CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T100246_C001  CS_OFFL_SIR_GOPM_2_20220623T10	CS_OFFL_SIR_GOPM_2_20220623T064423_20220623T070442_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T08402_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_C001  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085223_C001  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085524_C001  CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001  CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_	CS_OFFL_SIR_GOPM_2_20220623T070910_20220623T071308_C001		
And Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085223_C001  CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085223_C001  CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T095554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T1095527_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346	CS_OFFL_SIR_GOPM_2_20220623T072005_20220623T074600_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001  CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  Backscatter Quality  CCS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CCS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPM_2_20220623T082004_20220623T084420_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001  CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001  CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T10230623T102346_C001  CS_OF	CS_OFFL_SIR_GOPM_2_20220623T084658_20220623T085223_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS OFFL SIR GOPM 2 20220623T102306 23T102306 2011  OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20220623T085229_20220623T085554_C001		
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG  Altimeter Range Quality, OCOG  Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20220623T085932_20220623T093157_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  CS_OFFL_SIR_GOPM_2_20220623T102346_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T102306_23T102306_C001  CS_OFFL_SIR_GOPM_2_20220623T102306_23T102306_C001  CS_OFFL_SIR_GOPM_2_20220623T102306_23T103502_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220623T095527_20220623T095602_C001		
CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220623T102700_20220623T103502_C001  CS_OFFL_SIR_GOPM_2_20220623T102700_20220623T103502_C001  And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20220623T100254_20220623T101606_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220623T101851_20220623T102346_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220623T102700_20220623T103502_C001		

CS_OFFL_SIR_GOPM_2_20220623T103926_20220623T111215_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_20220623T112538_20220623T112638_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_20220623T115437_20220623T120236_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_20220623T120635_20220623T121151_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_20220623T121836_20220623T124003_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_20220623T124248_20220623T125313_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_20220623T130344_20220623T130828_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_20220623T132258_20220623T132858_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_20220623T133045_20220623T134112_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_20220623T134807_20220623T135052_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_20220623T135810_20220623T142409_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_20220623T142521_20220623T142734_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_20220623T142805_20220623T143427_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_20220623T144702_20220623T145356_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_20220623T145413_20220623T151830_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_20220623T152805_20220623T152959_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_20220623T153214_20220623T153457_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_20220623T153723_20220623T154054_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_20220623T154144_20220623T155318_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_20220623T155321_20220623T160349_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_20220623T162720_20220623T164307_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_20220623T165457_20220623T170029_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_20220623T195457_20220623T202019_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_20220623T202401_20220623T202538_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_20220623T202647_20220623T203111_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_20220623T203529_20220623T205930_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_20220623T212813_20220623T215854_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_20220623T221422_20220623T222043_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_20220623T222138_20220623T223314_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_20220623T225100_20220623T225202_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_20220623T230434_20220623T233806_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_20220623T234509_20220623T235022_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220623T045647_20220623T045957_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220623T071542_20220623T071823_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220623T074803_20220623T074930_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220623T153457_20220623T153625_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220623T164821_20220623T164926_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_20220623T002915_20220623T003217_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_20220623T221315_20220623T221422_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

71

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220623T003217_20220623T003538_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_20220623T010232_20220623T010600_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_20220623T034744_20220623T034922_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_20220623T044032_20220623T044249_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_20220623T045647_20220623T045957_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_20220623T055437_20220623T055925_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_20220623T061244_20220623T061406_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_20220623T061613_20220623T062126_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_20220623T063716_20220623T064108_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_20220623T074803_20220623T074930_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_20220623T075406_20220623T075528_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_20220623T075617_20220623T075949_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_20220623T080951_20220623T081114_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_20220623T085554_20220623T085715_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_20220623T093157_20220623T093643_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_20220623T094628_20220623T094729_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_20220623T102536_20220623T102700_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_20220623T103502_20220623T103613_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_20220623T111215_20220623T111338_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_20220623T111435_20220623T111611_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_20220623T112820_20220623T112943_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_20220623T114218_20220623T114402_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_20220623T114613_20220623T114718_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_20220623T120510_20220623T120635_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_20220623T134459_20220623T134807_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_20220623T135052_20220623T135435_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_20220623T144200_20220623T144536_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_20220623T160535_20220623T160752_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_20220623T170029_20220623T170643_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_20220623T202538_20220623T202647_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_20220623T221150_20220623T221315_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_20220623T223710_20220623T223813_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_20220623T224753_20220623T224916_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_20220623T230312_20220623T230434_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_20220623T002915_20220623T003217_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_20220623T011052_20220623T011117_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_20220623T011305_20220623T011622_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_20220623T012430_20220623T013211_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_20220623T013304_20220623T013325_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_20220623T020736_20220623T020925_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_20220623T022102_20220623T022437_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_20220623T030334_20220623T031044_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_20220623T035851_20220623T040506_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_20220623T041817_20220623T042032_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_20220623T043711_20220623T044032_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_20220623T044428_20220623T044955_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_20220623T061406_20220623T061613_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_20220623T062126_20220623T062745_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_20220623T075950_20220623T080351_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_20220623T080352_20220623T080854_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_20220623T093643_20220623T094424_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_20220623T093643_20220623T094424_C001  CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM,	and the OCOG Altimeter 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
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM,	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  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 set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001  CS_OFFL_SIR_GOPR_2_20220623T102346_20220623T102536_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001  CS_OFFL_SIR_GOPR_2_20220623T102346_20220623T102536_C001  CS_OFFL_SIR_GOPR_2_20220623T103613_20220623T103926_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001  CS_OFFL_SIR_GOPR_2_20220623T102346_20220623T102536_C001  CS_OFFL_SIR_GOPR_2_20220623T103613_20220623T103926_C001  CS_OFFL_SIR_GOPR_2_20220623T111611_20220623T112244_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  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 set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001  CS_OFFL_SIR_GOPR_2_20220623T102346_20220623T102536_C001  CS_OFFL_SIR_GOPR_2_20220623T103613_20220623T103926_C001  CS_OFFL_SIR_GOPR_2_20220623T111611_20220623T112244_C001  CS_OFFL_SIR_GOPR_2_20220623T120236_20220623T120510_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH 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  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range an
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001  CS_OFFL_SIR_GOPR_2_20220623T102346_20220623T102536_C001  CS_OFFL_SIR_GOPR_2_20220623T103613_20220623T103926_C001  CS_OFFL_SIR_GOPR_2_20220623T111611_20220623T112244_C001  CS_OFFL_SIR_GOPR_2_20220623T120236_20220623T120510_C001  CS_OFFL_SIR_GOPR_2_20220623T120236_20220623T121836_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH 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  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220623T094729_20220623T094905_C001  CS_OFFL_SIR_GOPR_2_20220623T095425_20220623T095503_C001  CS_OFFL_SIR_GOPR_2_20220623T102346_20220623T102536_C001  CS_OFFL_SIR_GOPR_2_20220623T103613_20220623T103926_C001  CS_OFFL_SIR_GOPR_2_20220623T111611_20220623T112244_C001  CS_OFFL_SIR_GOPR_2_20220623T120236_20220623T120510_C001  CS_OFFL_SIR_GOPR_2_20220623T120236_20220623T121836_C001  CS_OFFL_SIR_GOPR_2_20220623T121455_20220623T121836_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range 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  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH 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_20220623T143603_20220623T144040_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_20220623T151830_20220623T152531_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_20220623T153625_20220623T153723_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_20220623T161401_20220623T161918_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_20220623T203343_20220623T203529_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_20220623T211004_20220623T211204_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_20220623T211220_20220623T212005_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_20220623T215855_20220623T220211_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_20220623T224916_20220623T224946_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_20220623T225333_20220623T230122_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_20220623T230228_20220623T230312_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_20220623T233806_20220623T234155_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 & 1 Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

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

Number of products with errors:

159

## 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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 (20 Hz PLRM)

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

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

Number of products with errors: 12

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

0

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

0

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

Number of products with errors:

24

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220622T234645_20220623T003621_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220623T003621_20220623T012600_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T012600_20220623T021535_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T021535_20220623T030514_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220623T030514_20220623T035450_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T035450_20220623T044428_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220623T053404_20220623T062343_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220623T062343_20220623T071319_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T071319_20220623T080257_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T080257_20220623T085233_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T085233_20220623T094212_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220623T094212_20220623T103148_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T103148_20220623T112126_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220623T112126_20220623T121102_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220623T121102_20220623T130041_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220623T130041_20220623T135016_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T135016_20220623T143955_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T143955_20220623T152931_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T152931_20220623T161909_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T161909_20220623T170845_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220623T202714_20220623T211653_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220623T211653_20220623T220629_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220623T220629_20220623T225608_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220623T225608_20220623T234544_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 6.5 P2P Measurement Confidence Data Check

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220623T035450_20220623T044428_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220623T152931_20220623T161909_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20 Hz)

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

Number of products with errors:

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

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

Number of products with errors:

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

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

Number of products with errors:

#### 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

23

25

#### P2P Retracking Flags PLRM

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

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

Number of products with errors:

25

## 7. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	144	144	3	141	0
SIR_GOPR1B	101	101	0	101	0
SIR_GOPN1B	83	83	0	83	0
SIR_GOPM_2	142	142	95	47	0
SIR_GOPR_2	99	99	35	63	1
SIR_GOPN_2	83	83	28	55	0
SIR GOP P2P	24	24	0	24	0

#### 7.1 QCC Errors

#### Number of QCC reports with errors:

- 1

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	1	1	1	1							

Test Description Key:	est Description Key:						
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7					
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7					

## 7.2 QCC Warnings

Number of QCC reports with warnings

1852

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	141	0	0	0	0	0	0
SIR_GOPM_2	0	0	27	35	1	37	0
SIR_GOPN1B	82	0	0	0	0	0	0
SIR_GOPN_2	0	0	6	25	4	16	21
SIR_GOPR1B	99	0	0	0	0	0	0
SIR_GOPR_2	0	1	33	38	2	28	28

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	32	0	30	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	13	0	0	0	21	0	28
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	15	1	0	40	0	48	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	23	0	0	3	23	0	3
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	25	15	42	46	27
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	41	0	1	55	39	7

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_GOPM1B	0	0	0	0	0	0	
SIR_GOPM_2	27	0	5	0	0	0	
SIR_GOPN1B	0	0	0	0	41	1	
SIR_GOPN_2	21	22	14	1	0	0	
SIR_GOPR1B	0	0	0	0	101	4	
SIR_GOPR_2	37	39	2	1	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	NB320F0EFNCDF
SIR_GOP_2_	13	24	24	6	24		24

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	1	14	24	18	14	24	15

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF				
SIR_GOP_2_	19	24	16	12	24				
Test Description Key:									
Abbreviation	Test name			Details					
BCSHNCDF	BurstCounterStep20HzNet0	CDF		The burst counter should be one higher with regard to the previous burst counter					
IOHHMOOR	IndexOf1Hzin20HzMapping	gOutOfRange		The mapping of 20 Hz to 1	Hz measurements should be	e in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcl	udingPolarFD2NetCDF		The value should not be a 'i	missing value' for surface typ	pe 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcl	udingPolarNetCDF		The value should not be a 'i	missing value' for surface type	pe 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetO	CDF			missing value' for surface typ	·			
	RangeBackscatterSigmaZe	eroOPOceanExcludingPolarF	FD2NetCDF	The backscatter sigma zero between -70 and 70 degree		d 7500 (or missing) for surface type = ocean for latitudes			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZe	eroOPOceanExcludingPolarF		between -70 and 70 degree	s	1 7500 (or missing) for surface type = ocean for latitudes			
RBSZOPOEPNCDF	RangeBackscatterSigmaZe	eroOPOceanExcludingPolari		between -70 and 70 degree	s	1 7500 (or missing) for surface type = ocean for latitudes			
RNELPOTONCDF	RangeNELPOceanTideOce	eanNetCDF		surface type = ocean		tht should be between -40mm and 40mm (or missing) for			
	RangePeakinessExcluding	PolarOPFD2LRMNetCDF		The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	HangePeakinessExcludingPolarOPFD2PLRMSARNetCDF			The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSINN CDF	N 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	RangePeakinessExcluding	PolarOPFD2SINNetCDF		The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF	RangePeakinessExcluding	PolarOPLRMNetCDF		The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF	RangePeakinessExcluding	PolarOPSARNetCDF		The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF	RangePeakinessExcluding	PolarOPSINNetCDF		The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF	RangeSeaStateBiasCorrec	tionOceanNetCDF		The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
RSSHAOFDNCDF	RangeSeaSurfaceHeightAr	nomalyOceanFD3NetCDF		The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAr	nomalyOceanFD3PLRMNetO	CDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAONCDF	RangeSeaSurfaceHeightAr	nomalyOceanNetCDF		The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSWHOEPFDNCDF		ghtOceanExcludingPolarFD2	NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeig	ghtOceanExcludingPolarFD2	PLRMNetCDF	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					
SOOHHIFHD	SameOrOneHigher1HzInde	exFor20HzData		The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample					
SCSTODHRNCDF	SequenceCounterStepTOD	DHRNetCDF		The sequence counter should be modulo 4 higher with regard to the previous sequence counter					
SCSTODNCDF	SequenceCounterStepTOD	NetCDF		The sequence counter shou	ald be one higher (modulo 16	6384) with regard to the previous sequence counter			

# 7.3 Missing QCC Reports

Number of products with missing QCC reports: