

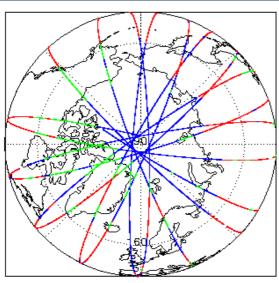
# 1. Overview

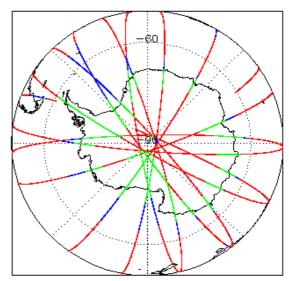
Report Production:	07-Jun-2022		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data		

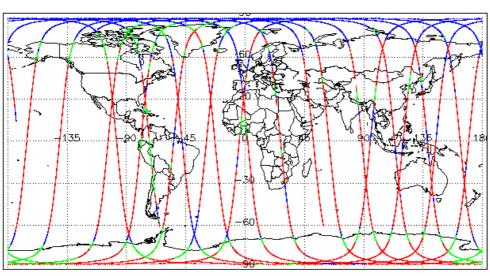
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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, 7.2 and 7.3	See Section 7.1, 7.2 and 7.3

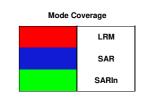
Mi	ission / Instru	ment News
2	27-Apr-2022	None
2	28-Apr-2022	SIRAL unavailability 10:36:53 to 15:13:50 due to collision avoidence
2	29-Apr-2022	Nothing planned

# 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:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

 Product
 Test Failed
 Description

 CS\_OFFL\_SIR\_GOPM1B\_20220428T001957\_20220428T002806\_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: 14

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Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20220428T004631_20220428T005102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220428T020503_20220428T020659_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220428T085054_20220428T085518_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T020429_20220428T020503_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T034435_20220428T034510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T034951_20220428T035418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T035438_20220428T035653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T053720_20220428T054436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T071015_20220428T071359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T071636_20220428T072349_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T084753_20220428T085007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T153738_20220428T153806_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T190113_20220428T190120_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220428T203948_20220428T204034_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:

#### 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:

42

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220428T182600_20220428T182713_C001	IMean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

COUNTLANT_CONTRACTOR CONTRACTOR C	00.0551.010.0000.0.0000.0000.0000.0000.	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
COUNTLAND.COMPLIGNMENT IN COUNTRY TO SECURITY TO SECUR	CS_OFFL_SIR_GOPN_2_20220428T012646_20220428T013022_C001		Topography height (solution 1) for one or more records
COUNT_SECOND_EXECUTION DESCRIPTIONS COUNTY TO A CONTROL TO A COUNTY TO A COUNT	CS_OFFL_SIR_GOPN_2_20220428T030607_20220428T030927_C001		
Man De directe in the property in the control of the property of the property in the control of the property in the property i	CS_OFFL_SIR_GOPN_2_20220428T035653_20220428T035806_C001		
Topography (1)  Ween See Survivor (1), Meen Dynamic Topography (1), Total Openote Topography (1)  Ween See Survivor (1), Meen Dynamic Topography (1), Total Openote Topography (1), Total Openote Topography (1), Total Openote Topography (1), Total Openote Topography (1)  Ween See	CS_OFFL_SIR_GOPN_2_20220428T045343_20220428T045452_C001	Mean Dynamic Topography (1)	
Topografy (1) Topografy (2) There is a minor with the Mean Dynamic Topografy (soblect 1) for one of minor social.  Mean Dynamic Topografy (1) There is a minor with the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to the Mean Dynamic Topografy (soblect 1) for one of minor social to th	CS_OFFL_SIR_GOPN_2_20220428T053609_20220428T053720_C001		
Sec. OFFL. SRI, DOPN_2_RECONSTRUCTIONS_RECONSTRUCTIONS_CONTROL CONTROL	CS_OFFL_SIR_GOPN_2_20220428T063047_20220428T063237_C001		
So GHTL SIR GOPN 2 2020/421102554 2020/421102554 COPPL SIR GOPN 2 2020/421102554 2020/421105501 COPPL SIR GOPN 2 2020/421102555 2020/421105501 COPPL SIR GOPN 2 2020/421105501 COPPL SIR GOPN	CS_OFFL_SIR_GOPN_2_20220428T071400_20220428T071635_C001	Mean Dynamic Topography (1)	
Topography (1)  Topography (1)  Topography (2)  Sept. Self. GCPN_2 20204487110954_20204487110954. D00104141. D001  Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (soutcon 1) and the Mean Dynamic Topography (1)  There is an error with the MSS hei	CS_OFFL_SIR_GOPN_2_20220428T085054_20220428T085518_C001	Mean Dynamic Topography (1)	
There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_COPPL_2_0220428T195462_0220428T195552_02201  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_COPPL_2_0220428T195462_0220428T196352_02201  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 (2)  Mean Sea Surface (1), Mean Dynamic Topography (3)  Mean Sea Surface (1), Mean Dynamic Topography (4)  Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (4)  Mean Dynamic Topography (1)  Mean Dyn	CS_OFFL_SIR_GOPN_2_20220428T093952_20220428T094234_C001		
Topography (1) Topography (2) Topography (2) Topography (2) Topography (2) Topography (2) Topography (3) Topography (3) Topography (3) Topography (4) Topography (4) Topography (4) Topography (4) Topography (4) Topography (5) Topography (6) Topography (7) Topography (7) Topography (7) Topography (7) Topography (7) Topography (8) Topogr	CS_OFFL_SIR_GOPN_2_20220428T102954_20220428T103341_C001	Mean Dynamic Topography (1)	
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Man Sea Surface (1), Mean Dynamic Topography (1)  Man Sea Surface (1), Mean Dynamic Topography (2)  Man Sea Surface (1), Mean Dynamic Topography (2)  Man Sea Surface (1), Mean Dynamic Topography (3)  Man Sea Surface (1), Mean Dynamic Topography (2)  Man Sea Surface (1), Mean Dynamic Topography (3)  Mean Sea Surface (1), Mean Dynamic Topography (4)  Mean Sea Surface (1), Mean Dynamic Topography (4)  Mean Sea Surface (1), Mean Dynamic Topography (4)  Mean Sea Surface (2), Mean Dynamic Topography (3)  Mean Sea Surface (3), Mean Dynamic Topography (4)  Mean Sea Surface (4), Mean Dynamic Topography (4)  Mean Sea Surface (4), Mean Dynamic Topography (4)  Mean Sea Surface (5), Mean Dynamic Topography (4)  Mean Sea Surface (6), Mean Dynamic Topography (4)  Mean Sea Sur	CS_OFFL_SIR_GOPN_2_20220428T162440_20220428T162815_C001		
Topography (1)  CS. OFFL SIR GOPN 2. 20220428T198462 20220428T19408. CO01  CS. OFFL SIR GOPN 2. 20220428T198462 20220428T19408. CO01  CS. OFFL SIR GOPN 2. 20220428T193462 20220428T19408. CO01  CS. OFFL SIR GOPN 2. 20220428T193462 20220428T19408. CO01  Mean Sies Surface (1), Mean Dynamic Topography (1)  Mean Sies Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (existion 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (existion 1) and the Mean Dynamic Topography (1)  CS. OFFL SIR GOPN 2. 20220428T203087 20220428T203086 CO01  Mean Dynamic Topography (1)  CS. OFFL SIR GOPN 2. 20220428T203087 20220428T203086 CO01  CS. OFFL SIR GOPN 2. 20220428T203087 20220428T21825. CO01  Mean Dynamic Topography (1), Total Concentro Coose Tide (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	CS_OFFL_SIR_GOPN_2_20220428T171552_20220428T171622_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220428T19452_20220428T19458_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) for one or more records  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) for one or more records  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)  CS_OFFL_SIR_GOPN_2_20220428T203557_20220428T2035948_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Topography (1)  Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  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)  Topography (1)  Topography (1)  Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the MS	CS_OFFL_SIR_GOPN_2_20220428T175919_20220428T180153_C001		
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Source Control of the Control of	CS_OFFL_SIR_GOPN_2_20220428T193452_20220428T194038_C001		
Togography (1)  CS_OFFL_SIR_GOPN_2_20220428T203719_20220428T203948_C001  CS_OFFL_SIR_GOPN_2_20220428T211644_20220428T211825_C001  Mean Dynamic Togography (1), Total Geocentric Ocean Tide (6DI, Non-Equilibrium Long Period Ocean Tide (6DI, Non-Equi	CS_OFFL_SIR_GOPN_2_20220428T202856_20220428T202952_C001	Mean Dynamic Topography (1)	
Geocentric Ocean Tide (GOT), Total Geocentric Ocean	CS_OFFL_SIR_GOPN_2_20220428T203357_20220428T203608_C001		
Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (2)  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Dynamic Topography height (solution 1) for one or more records  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), 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  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  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  Mean Sea Surface (1), Mean Dynamic Topography	CS_OFFL_SIR_GOPN_2_20220428T203719_20220428T203948_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
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Topography height (solution 1) for one or more records  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 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 height (solution 2) and the Mean Dynamic Topography height (solution 3) 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)  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 (1)  Topography (1)  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)  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 Mean Dynamic 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) and the Mean Dynamic 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) 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_20220428T212709_20220428T212917_C001		
CS_OFFL_SIR_GOPR_2_20220428T003614_20220428T004631_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), 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) 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)  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  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 re	CS_OFFL_SIR_GOPN_2_20220428T221311_20220428T221758_C001		
Topography (1)  Topography height (solution 1) for one or more records  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 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)  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 (1)  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)  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) 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) for one or more records  There is an error with the MSS height (solution 1) for one	CS_OFFL_SIR_GOPN_2_20220428T234524_20220428T234557_C001	Mean Dynamic Topography (1)	, , , , ,
Topography (1)  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) 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) 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) 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) 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 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) 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  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 Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20220428T003614_20220428T004631_C001		
Topography (1)  Topography (20220428T035806_20220428T053720_20220428T054436_C001  Topography (1)  Topography (1)  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)  Topography (2)  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  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) 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)  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)  Topography (1)  Topography (2)  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  Mean Sea Surface (1), Mean Dynamic  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20220428T021743_20220428T022530_C001		
Topography (1)  Topography height (solution 1) for one or more records  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) 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) 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 (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	CS_OFFL_SIR_GOPR_2_20220428T035806_20220428T040554_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  There is an error with the MSS height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  Mean Dynamic Topography (1)  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 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 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 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 (solut	CS_OFFL_SIR_GOPR_2_20220428T053720_20220428T054436_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  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)  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 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_20220428T071636_20220428T072349_C001		
CS_OFFL_SIR_GOPR_2_20220428T103342_20220428T103654_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)  CS_OFFL_SIR_GOPR_2_20220428T152854_20220428T153529_C001  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  CS_OFFL_SIR_GOPR_2_20220428T153529_2020428T153710_C001  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) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)	CS_OFFL_SIR_GOPR_2_20220428T085518_20220428T090134_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  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  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOPR_2_20220428T090137_20220428T090235_C001	Mean Dynamic Topography (1)	
Topography (1) Topography height (solution 1) for one or more records  CS_OFFL_SIB_GOPB_2_20220428T153529_20220428T153710_C001  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_20220428T103342_20220428T103654_C001		
	CS_OFFL_SIR_GOPR_2_20220428T152854_20220428T153529_C001		
	CS_OFFL_SIR_GOPR_2_20220428T153529_20220428T153710_C001		

CS_OFFL_SIR_GOPR_2_20220428T170942_20220428T171430_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_20220428T171430_20220428T171552_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_20220428T184739_20220428T185314_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_20220428T185314_20220428T185426_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_20220428T202952_20220428T203043_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20220428T203043_20220428T203357_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_20220428T220611_20220428T221311_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_20220428T234811_20220428T235340_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220428T001957_20220428T002806_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_20220427T235850_20220428T001955_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_20220428T001957_20220428T002806_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_20220428T005103_20220428T012409_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_20220428T013022_20220428T013558_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_20220428T013730_20220428T014343_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_20220428T021454_20220428T021629_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_20220428T022942_20220428T030329_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_20220428T030927_20220428T031439_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_20220428T031651_20220428T033624_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_20220428T040809_20220428T042952_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_20220428T043057_20220428T044150_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_20220428T044944_20220428T045343_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_20220428T045617_20220428T052442_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_20220428T052457_20220428T053203_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_20220428T054612_20220428T054615_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have beer for one or more records
CS_OFFL_SIR_GOPM_2_20220428T054852_20220428T054929_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T054950_20220428T055056_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fland the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T055118_20220428T055903_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FI and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T060344_20220428T060522_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have I set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T060524_20220428T061722_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T061729_20220428T062116_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have I set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T062308_20220428T062827_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records
CS_OFFL_SIR_GOPM_2_20220428T062845_20220428T063047_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records
CS_OFFL_SIR_GOPM_2_20220428T063922_20220428T065204_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T065418_20220428T070623_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T070848_20220428T071015_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T073337_20220428T074308_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T074544_20220428T080025_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T080234_20220428T080739_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records
CS_OFFL_SIR_GOPM_2_20220428T080803_20220428T080918_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records
CS_OFFL_SIR_GOPM_2_20220428T081610_20220428T081707_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T082637_20220428T082748_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T083554_20220428T083756_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T083919_20220428T084628_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T092232_20220428T093923_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T094235_20220428T094656_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records
CS_OFFL_SIR_GOPM_2_20220428T094717_20220428T094858_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records
CS_OFFL_SIR_GOPM_2_20220428T095317_20220428T101800_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T151636_20220428T152548_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPM_2_20220428T153806_20220428T154209_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have I set for one or more records

Depth 13 m Communication Country Play the detection Country Play the Country Play the detection Countr	CS_OFFL_SIR_GOPM_2_20220428T155757_20220428T160242_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
Residence Guilly  CR_CPTI_SPI_COPM_2_8202469T1904B_029106T16930_C0f01  CR_CPTI_SPI_COPM_2_8202469T1904B_029106T16930_C0f01  CR_CPTI_SPI_COPM_2_8202469T1904B_029106T16930_C0f01  CR_CPTI_SPI_COPM_2_8202469T1904B_029106T17030_C0f01  CR_CPTI_SPI_COPM_2_8202469T1904B_029106T17030_C0f01  CR_CPTI_SPI_COPM_2_8202469T1906B_029106T17030_C0f01  CR_CPTI_SPI_COPM_2_8202469T1906B_029106T17030_C0f01  CR_CPTI_SPI_COPM_2_8202469T1906B_029106T17030_C0f01  CR_CPTI_SPI_COPM_2_8202469T17030_C0f01  CR_C	CS_OFFL_SIR_GOPM_2_20220428T160430_20220428T161711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR. DPFL_SR_DDFM_2_2020468T168164_2020488T18500_0001	CS_OFFL_SIR_GOPM_2_20220428T162121_20220428T162440_C001		
Description Compagnetists (Compagnetists) and the compagnetists (Compa	CS_OFFL_SIR_GOPM_2_20220428T163048_20220428T163635_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. OFFL. SR., GOPM. 2. 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1938); 202042811 (1939); 202	CS_OFFL_SIR_GOPM_2_20220428T163644_20220428T165903_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SB_OFFL_SIR_COPM_2_2020048717803_7020448717908_COOL SB_OFFL_SIR_COPM_2_2020048717803_7020448719386_COOL SB_OFFL_SIR_COPM_2_2020048717803_7020448719386_COOL SB_OFFL_SIR_COPM_2_2020048718003_7020448719386_COOL SB_OFFL_SIR_COPM_2_2020048718003_7020448719386_COOL SB_OFFL_SIR_COPM_2_2020048718003_7020448719386_COOL SB_OFFL_SIR_COPM_2_2020048718003_7020448719386_COOL SB_OFFL_SIR_COPM_2_2020048718014_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548718044_COOL SB_OFFL_SIR_COPM_2_2020048718018_7020548719044_COOL SB_OFFL_SIR_COPM_2_2020048719048_7020484719044_COOL SB_OFFL_SIR_COPM_2_2020048719048_7020484719044_COOL SB_OFFL_SIR_COPM_2_2020048719044_7020448719044_COOL SB_OFFL_SIR_COPM_2_2020048719044_7020448719044_COOL SB_OFFL_SIR_COPM_2_2020048719074_7020488719044_COOL SB_OFFL_SIR_COPM_2	CS_OFFL_SIR_GOPM_2_20220428T165936_20220428T170322_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Se OFFL, SIRL COPM 2, 20220428T18002 20220428T180080 CO01  CS OFFL SIRL COPM 2, 20220428T181041 20220428T180080 CO01  CS OFFL SIRL COPM 2, 20220428T181041 20220428T180187 CO01  CS OFFL SIRL COPM 2, 20220428T181041 20220428T180281 CO01  CS OFFL SIRL COPM 2, 20220428T180281 CO01  CS OFFL SIRL COPM 2, 20220428T180281 CO02  CS OFFL SIRL COPM 2, 20220	CS_OFFL_SIR_GOPM_2_20220428T172059_20220428T172800_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Descriptions of the Court Service County of the Court Service County Flags and the Coop Amende Flags and discocation County Flags and the Coop Amende Flags and discocation County Flags and the Coop Amende Flags and the Coop Am	CS_OFFL_SIR_GOPM_2_20220428T172823_20220428T175218_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCG Alteriser Range and Backscatter Coulty Flags have been at Cocgo Alteriser Range and Backscatter Coulty Flags have been at Cocgo Alteriser Range and Backscatter Coulty Cocgo and Interior Range and Backscatter Coulty Cocgo Alteriser Range and Backscatter Coulty Cocgo and Interior Range and Backscatter Coulty Cocgo Alteriser Range and Backscatter Coulty Plags in the Cocgo Alteriser Range and Backscatter	CS_OFFL_SIR_GOPM_2_20220428T180630_20220428T180826_C001	0 ,,	
and backscater Quality COCG All marker Range and Backscater Quality Flags have been and backscat	CS_OFFL_SIR_GOPM_2_20220428T181041_20220428T181617_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CODG  CS_OFFL_SIR_GOPM_2_20220428T183120_20220428T183843_CO01  CS_OFFL_SIR_GOPM_2_20220428T183120_20220428T183843_CO01  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_CO01  Allmeter Range and Backscatter Quality, CODG  Allmeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_CO01  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190428_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190428_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190439_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190439_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190451_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190491_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190491_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T190491_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T20049_CO01  CS_OFFL_SIR_GOPM_2_20220428T190499_20220428T20049_CO01  CS_OFFL_SIR_GOPM_2_20220428T200699_20220428T20049_CO01  CS_OFFL_SIR_GOPM_2_20220428T200699_20220428T20049_CO01  CC_OFFL_SIR_GOPM_2_20220428T200699_20220428T20049_CO01  CC_OFFL_SIR_GOPM_2_20220428T200699_20220428T200690_CO01  CC_OFFL_SIR_GOPM_2_20220428T200690_20220428T200690_CO01  CC_OFFL_SIR_GOPM_2_20220428T200690_20220428T200690_CO01  CC_OFFL_SIR_GOPM_2_20220428T200690_20220428T205500_CO01  CC_OFFL_SIR_GOPM_2_20220428T200690_20220428T205500_CO01  CC_OFFL_SIR_GOPM_2_20220428T206901_20220428T205500_CO01  CC_OFFL_SIR_GOPM_2_20220428T206901_20220428T205900_CO01  CC_OFFL_SIR_GOPM_2_20220428T206901_20220428T205900_CO01  CC_OFFL_SIR_GOPM_2_20220428T206901_20220428T205900_CO01  CC_OFFL_SIR_GOPM_2_20220428T206901_20220428T205900_CO01  CC_OFFL_SIR_GOPM_2_20220428T206901_20220428T205900_CO01  CC_OFFL_S	CS_OFFL_SIR_GOPM_2_20220428T181711_20220428T182424_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_C001  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_C001  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_C001  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_C001  CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190417_C001  CS_OFFL_SIR_GOPM_2_20220428T19020_20220428T190417_C001  CS_OFFL_SIR_GOPM_2_20220428T19020_20220428T190417_C001  CS_OFFL_SIR_GOPM_2_20220428T19020_20220428T190417_C001  CS_OFFL_SIR_GOPM_2_20220428T19020_20220428T190417_C001  CS_OFFL_SIR_GOPM_2_20220428T19020_2020428T190417_C001  CS_OFFL_SIR_GOPM_2_20220428T19020_2020428T100400_C001  CS_OFFL_SIR_GOPM_2_20220428T190000_2020428T1000000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20220428T182716_20220428T182811_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. Plags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality. Plags and the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter Range and Backscatter Quality Flags have been all the OCOG Altimeter	CS_OFFL_SIR_GOPM_2_20220428T183120_20220428T183843_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COGO Altimeter Range and Backscatter Quality Cogo Altimeter Range and Backscatter Quality Cogo Coen Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality, COGO Altimeter Range and Backscatter Quality, COGO Altimeter Range, SSHA, SWH and Backscatter Quality, COGO Altimeter Range, SSHA, SWH and Backscatter Quality, COGO Altimeter Range and Backscatter Quality,	CS_OFFL_SIR_GOPM_2_20220428T190120_20220428T190411_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCO Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Ba	CS_OFFL_SIR_GOPM_2_20220428T190426_20220428T191457_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 Flags have been Altimeter Range	CS_OFFL_SIR_GOPM_2_20220428T192311_20220428T193451_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 Flags have been and Backscatter Quality Flags have been and the OCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T205142_00019_0001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T205019_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T20530_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T205901_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T21825_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T21825_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T21825_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_00220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_00220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_00220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_00220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_00220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_00220428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_0020428T21535_C001  CS_OFFL_SIR_GOPM_2_20220428T212926	CS_OFFL_SIR_GOPM_2_20220428T194949_20220428T195647_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220428T204741_20220428T205019_C001  CS_OFFL_SIR_GOPM_2_20220428T204741_20220428T205019_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T205019_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T205010_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T205010_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T205010_C001  CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T205901_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T21825_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T21825_20220428T21538_C001  CS_OFFL_SIR_GOPM_2_20220428T211825_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T21533_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T25442_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T25442_C001  CS_OFFL_SIR_GOPM_2_20220428T220201_20220428T25442_C001  CS_OFFL_SIR_GOPM_2_20220428T220201_20220428T25442_C001  CS_OFFL_SIR_GOPM_2_20220428T220201_20220428T25442_C001  CS_OFFL_SIR_GOPM_2_20220428T220201_20220428T25442_C001  CS_OFFL_SIR_GOPM_2_20220428T23003_2020428T25542_C001  CS_OFFL_SIR_GOPM_2_20220428T23003_2020428T25542_C001  CS_OFFL_SIR_GOPM_2_20220428T23003_2020428T25542_C001  CS_OFFL_SIR_GOPM_2_20220428T23003_2020428T25542_C001  CS_OFFL_SIR_GOPM_2_20220428T23003_2020428T25542_C001  CS_OFFL_SIR_GOPM_2_20220428T23003_20	CS_OFFL_SIR_GOPM_2_20220428T195704_20220428T200440_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 Flags have been set for one or more records  Cs_OFFL_SIR_GOPM_2_20220428T205142_20220428T205630_C001  Cs_OFFL_SIR_GOPM_2_20220428T205142_20220428T205630_C001  Cs_OFFL_SIR_GOPM_2_20220428T205901_20220428T211538_C001  Cs_OFFL_SIR_GOPM_2_20220428T205901_20220428T211538_C001  Cs_OFFL_SIR_GOPM_2_20220428T211825_20220428T212709_C001  Cs_OFFL_SIR_GOPM_2_20220428T211825_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T211825_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T212926_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Cs_OFFL_SIR_GOPM_2_20220428T220201_20220428T225442_C001  Cc_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_GOP	CS_OFFL_SIR_GOPM_2_20220428T200619_20220428T202142_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 Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T205901_20220428T211538_C001  CS_OFFL_SIR_GOPM_2_20220428T211825_20220428T212709_C001  CS_OFFL_SIR_GOPM_2_20220428T211825_20220428T212709_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T225442_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  CS_OFFL_SIR_GOPM_2_20220428T230033_20220428T23053_C001  CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T22021_20220428T225442_C001  CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220428T204741_20220428T205019_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 Quality, OCOG Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220428T211825_20220428T212709_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  CS_OFFL_SIR_GOPM_2_20220428T22021_20220428T225442_C001  CS_OFFL_SIR_GOPM_2_20220428T22021_20220428T225442_C001  Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T22021_20220428T225442_C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T22542C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T220503_C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T220503_C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T220503_C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T220503_C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T220503_C001	CS_OFFL_SIR_GOPM_2_20220428T205142_20220428T205630_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001  Does Altimeter 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 and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  Does 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  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T22021_20220428T220503_2021  DOCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220428T205901_20220428T211538_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 Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001  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_20220428T211825_20220428T212709_C001		
CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality set for one or more records  CS_OFFL_SIR_GOPM_2_20220428T22021_20220428T220503_C001  CS_OFFL_SIR_GOPM_2_20220428T220033_20220428T230503_C001  CS_OFFL_SIR_GOPM_2_20220428T230033_20220428T230503_C001	CS_OFFL_SIR_GOPM_2_20220428T212926_20220428T215153_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220428T222021_20220428T225442_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220428T230033_20220428T230503_C001		

CS_OFFL_SIR_GOPM_2_20220428T230821_20220428T233331_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_20220428T021357_20220428T021454_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_20220428T045343_20220428T045452_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_20220428T161838_20220428T162121_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_20220428T220242_20220428T220300_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_20220428T013713_20220428T013729_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_20220428T021026_20220428T021354_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_20220428T030329_20220428T030607_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_20220428T034951_20220428T035418_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_20220428T040556_20220428T040558_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_20220428T070623_20220428T070848_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_20220428T074402_20220428T074544_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_20220428T080026_20220428T080047_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_20220428T183843_20220428T183943_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_20220428T184739_20220428T185314_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220428T004631_20220428T005102_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_20220428T012646_20220428T013022_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_20220428T013558_20220428T013713_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_20220428T015308_20220428T015425_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_20220428T021357_20220428T021454_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_20220428T022807_20220428T022942_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_20220428T031439_20220428T031604_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_20220428T033624_20220428T033940_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_20220428T044320_20220428T044641_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_20220428T053240_20220428T053351_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_20220428T071400_20220428T071635_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_20220428T072956_20220428T073337_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_20220428T080047_20220428T080233_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_20220428T082300_20220428T082636_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_20220428T082748_20220428T083332_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_20220428T085054_20220428T085518_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_20220428T093952_20220428T094234_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_20220428T102752_20220428T102914_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_20220428T102954_20220428T103341_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_20220428T153710_20220428T153738_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_20220428T155425_20220428T155757_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_20220428T161838_20220428T162121_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_20220428T162440_20220428T162815_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_20220428T172014_20220428T172059_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_20220428T175919_20220428T180153_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_20220428T180347_20220428T180630_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_20220428T183943_20220428T184124_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_20220428T185426_20220428T185547_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_20220428T192205_20220428T192311_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_20220428T193452_20220428T194038_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_20220428T202856_20220428T202952_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_20220428T203719_20220428T203948_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_20220428T205630_20220428T205901_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_20220428T211644_20220428T211825_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_20220428T212709_20220428T212917_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_20220428T215347_20220428T215656_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_20220428T220242_20220428T220300_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_20220428T220411_20220428T220432_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_20220428T221311_20220428T221758_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_20220428T221859_20220428T222020_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_20220428T225621_20220428T225746_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_20220428T230503_20220428T230724_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_20220428T003348_20220428T003604_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_20220428T003614_20220428T004631_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_20220428T012409_20220428T012646_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_20220428T021026_20220428T021354_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_20220428T021743_20220428T022530_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_20220428T030329_20220428T030607_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_20220428T034951_20220428T035418_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_20220428T035438_20220428T035653_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_20220428T035806_20220428T040554_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_20220428T053720_20220428T054436_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_20220428T054700_20220428T054716_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_20220428T054726_20220428T054852_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_20220428T061722_20220428T061729_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_20220428T063237_20220428T063922_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_20220428T071015_20220428T071359_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_20220428T071636_20220428T072349_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_20220428T074402_20220428T074544_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_20220428T084753_20220428T085007_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_20220428T085518_20220428T090134_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_20220428T090137_20220428T090235_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_20220428T091720_20220428T091752_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_20220428T092105_20220428T092232_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_20220428T103342_20220428T103654_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_20220428T152854_20220428T153529_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_20220428T153529_20220428T153710_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_20220428T153738_20220428T153806_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_20220428T154209_20220428T154546_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_20220428T162816_20220428T163048_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_20220428T170359_20220428T170556_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_20220428T170942_20220428T171430_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_20220428T171800_20220428T172002_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_20220428T175218_20220428T175919_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_20220428T184739_20220428T185314_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_20220428T185314_20220428T185426_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_20220428T190411_20220428T190425_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_20220428T191457_20220428T191653_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_20220428T191655_20220428T191905_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_20220428T203043_20220428T203357_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_20220428T203948_20220428T204034_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_20220428T220611_20220428T221311_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_20220428T230724_20220428T230821_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_20220428T234356_20220428T234524_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_20220428T234811_20220428T235340_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
LO Occalita Flores (1 Hz 9 1 Hz DI DIA)		

# L2 Quality Flags (1 Hz & 1 Hz PLRM)

 $\label{lem:currently} \textbf{Currently, there are several common flags raised in the Level 2 products, which are summarised below.}$ 

#### 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:

58

#### 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:

134

## 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:

0

### 6.2 P2P Product Header Analysis

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

Number of products with errors:

0

### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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:

25

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220427T235154_20220428T004131_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_20220428T004131_20220428T013109_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_20220428T013109_20220428T022045_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_20220428T022045_20220428T031024_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_20220428T031024_20220428T040000_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_20220428T040000_20220428T044938_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_20220428T044938_20220428T053915_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_20220428T053915_20220428T062853_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_20220428T062853_20220428T071829_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_20220428T071829_20220428T080808_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_20220428T080808_20220428T085744_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_20220428T085744_20220428T094722_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_20220428T094722_20220428T103659_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_20220428T144507_20220428T153443_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_20220428T153443_20220428T162421_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_20220428T162421_20220428T171357_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_20220428T171357_20220428T180336_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_20220428T180336_20220428T185312_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_20220428T185312_20220428T194250_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_20220428T194250_20220428T203227_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_20220428T203227_20220428T212205_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_20220428T212205_20220428T221141_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_20220428T221141_20220428T230120_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_20220428T230120_20220428T235056_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_2_20220428T235056_20220429T004035_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_220220427T235154_20220428T004131_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.

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: 2

# 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: 2

# 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:

## 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