

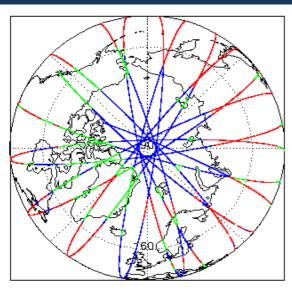
## 1. Overview

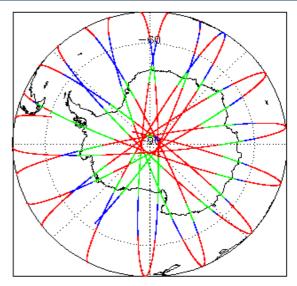
Report Production:	13-Jul-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

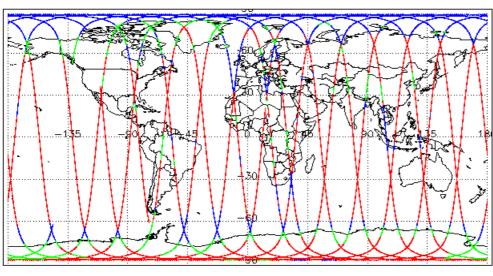
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

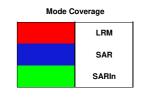
Mission /	rument News	
09-Jun-2	None	
10-Jun-2	None	
11-Jun-2	Nothing planned	

# 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:

0

### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220610T070449_20220610T070727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220610T074621_20220610T080758_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220610T173258_20220610T174624_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220610T195954_20220610T202441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220610T235358_20220610T235518_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T004126_20220610T004253_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T022439_20220610T022747_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T053934_20220610T054236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T154504_20220610T154924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T172647_20220610T172913_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T180137_20220610T180238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T180347_20220610T180651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T180656_20220610T180939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220610T190605_20220610T190746_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. GOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

**51** 

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220610T091234_20220610T091407_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20220610T203408_20220610T203435_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPN_2_20220610T005629_20220610T005713_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T013525_20220610T013844_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T014410_20220610T014535_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T022439_20220610T022747_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T032219_20220610T032330_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T040548_20220610T040646_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T050000_20220610T050211_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T054346_20220610T054601_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T063020_20220610T063205_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T072029_20220610T072425_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T081954_20220610T082151_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T121557_20220610T121818_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T130829_20220610T130955_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T131505_20220610T131810_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 (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220610T144859_20220610T145155_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T145408_20220610T145928_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T154504_20220610T154924_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 (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220610T162844_20220610T163119_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T172359_20220610T172512_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T180137_20220610T180238_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T180656_20220610T180939_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T190321_20220610T190544_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T194603_20220610T194754_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T203818_20220610T203846_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T204307_20220610T204741_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T212541_20220610T212719_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T222504_20220610T223024_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220610T230535_20220610T230917_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_20220610T004642_20220610T005538_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_20220610T022747_20220610T023534_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_20220610T040646_20220610T041229_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_20220610T054601_20220610T055107_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_20220610T055107_20220610T055255_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPR_2_20220610T072426_20220610T072948_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_20220610T090248_20220610T091234_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_20220610T104008_20220610T104745_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_20220610T105828_20220610T105907_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20220610T121859_20220610T122557_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_20220610T122557_20220610T122842_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_20220610T135741_20220610T140456_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_20220610T140456_20220610T140731_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_20220610T153929_20220610T154350_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_20220610T154350_20220610T154503_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_20220610T171718_20220610T172216_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_20220610T172216_20220610T172359_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_20220610T185712_20220610T190321_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_20220610T203846_20220610T204306_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_20220610T221527_20220610T222504_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_20220610T235640_20220611T000427_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:

# 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.

89

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220609T235955_20220610T000514_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_20220610T000832_20220610T001013_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220610T001150_20220610T001312_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_20220610T004254_20220610T004642_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220610T005835_20220610T010757_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_20220610T011043_20220610T013212_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220610T013845_20220610T013957_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_20220610T014004_20220610T014410_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 OFFI SID CODM 2 20020610T014924 20220610T015015 C001	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20220610T014824_20220610T015915_C001	and the second of the second o	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220610T020102_20220610T020708_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_20220610T020851_20220610T021336_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_20220610T023535_20220610T031049_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_20220610T031916_20220610T032219_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_20220610T032955_20220610T040044_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_20220610T040223_20220610T040418_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_20220610T040418_20220610T040547_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_20220610T041403_20220610T042840_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_20220610T042918_20220610T043419_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_20220610T043422_20220610T045023_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_20220610T045248_20220610T045754_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_20220610T045832_20220610T050000_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_20220610T050734_20220610T051731_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_20220610T051837_20220610T052137_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_20220610T052350_20220610T053622_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_20220610T060144_20220610T061340_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_20220610T061520_20220610T062935_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_20220610T063206_20220610T063705_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_20220610T064528_20220610T070442_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_20220610T070449_20220610T070727_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_20220610T070904_20220610T071709_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_20220610T073114_20220610T073740_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_20220610T074621_20220610T080758_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_20220610T081246_20220610T081623_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_20220610T081645_20220610T081953_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

0.00 PTL SRIP, COPIN 2, 2000eNTRIVENS 2,000eNTRIVENS 2,000eNTRIVEN	CS_OFFL_SIR_GOPM_2_20220610T082317_20220610T084915_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
Secretaria Couldy   Secretaria Couldy   Secretaria Couldy   Regulation   Secretaria Couldy   Secr	CS_OFFL_SIR_GOPM_2_20220610T085056_20220610T085125_C001	0 ,,	
CS_OFF_SR_GOM_2_2020018110203_2020810110003_CD81  CR_OFF_SR_GOM_2_2020018110203_2020810110003_CD81  CR_OFF_SR_GOM_2_2020018110203_2020810110003_CD81  CR_OFF_SR_GOM_2_2020018110203_2020810110003_CD81  CR_OFF_SR_GOM_2_2020018110203_2020810110003_CD81  CR_OFF_SR_GOM_2_2020018110203_2020810110003_CD81  CR_OFF_SR_GOM_2_2020018110203_20208101110003_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110003_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110001_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_202088101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_20200181110203_20208101110011_CD81  CR_OFF_SR_GOM_2_2020018111001_CD81  CR_OFF_SR_GOM_2_20200181110011_CD81  CR_OFF_SR_GO	CS_OFFL_SIR_GOPM_2_20220610T092236_20220610T092353_C001		
Security Confut. 2 (2000) (FTL. SRIT. CONFUL.	CS_OFFL_SIR_GOPM_2_20220610T092355_20220610T094800_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Set (1941), Site (2004), 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1928), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), 2022061011 (1924), GBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), CBD    CBI, OFFL, Site, GOPM, 2, 2022061811 (1924), CB	CS_OFFL_SIR_GOPM_2_20220610T095029_20220610T095537_C001		
obj. OFFL_SR_GOPAL_2_2020610711219_20200107112794_COD  do Render Rango Coulty, COD  do Render Rango, SSH, SWH and Backscatter Coulty Flags have been set on the control of the color of the c	CS_OFFL_SIR_GOPM_2_20220610T100258_20220610T103622_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Saccotter Caulty  Co. OFTL, SRI, COPM 2, 202208107112019, 202208107112019.	CS_OFFL_SIR_GOPM_2_20220610T105909_20220610T110524_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Bankscatter Causity, COC6 Affender Renge and Backscatter Causity, COC6 Affender Renge and Backscatter Causity Flags have been Affender Renge and Backscatter Causity Flags have been Affender Renge and Backscatter Causity Flags have been set for an own own owns.  CS_OFFL_SIR_GOPM_2_202205107114052_202205107112056_COC1  CS_OFFL_SIR_GOPM_2_202205107112056_20205107112056_COC1  CS_OFFL_SIR_GOPM_2_202205107122056_20220510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_2020510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056_COC1  CS_OFFL_SIR_GOPM_2_20220510712056	CS_OFFL_SIR_GOPM_2_20220610T111108_20220610T111709_C001		
Badesceller Caulity  CS_OFFL_SIR_OOPM_2_20220610T114552_20220610T125596_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T12559_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T12559_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T122559_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T122559_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T122559_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T122559_0001  CS_OFFL_SIR_OOPM_2_20220610T122543_20220610T132559_0001  CS_OFFL_SIR_OOPM_2_20220610T132559_0001  CS_OFFL_SIR_OOPM_2_20220610T132559_0001  CS_OFFL_SIR_OOPM_2_20220610T132559_0001  CS_OFFL_SIR_OOPM_2_20220610T132559_0001  CS_OFFL_SIR_OOPM_2_20220610T13574_0001  CS_OFFL_SIR_OOPM_2_20220610T13574_0001  CS_OFFL_SIR_OOPM_2_20220610T13574_0001  CS_OFFL_SIR_OOPM_2_20220610T14944_0001  CS_OFFL_SIR_OOPM_2_20220610T16964_0001  CS_OFFL	CS_OFFL_SIR_GOPM_2_20220610T112219_20220610T112704_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
or Backscater Oually, COCG Allmoter Range and Backscater Oually Flags have been affine Cocco Allmoter Range and Backscater Oually Flags have been affine Roccotors Oually, COCG Allmoter Range and Backscater Oually Flags have been affine Roccotors Oually, COCG Allmoter Range and Backscater Oually Flags have been affine Roccotors Oually, COCG Allmoter Range and Backscater Oually Flags and the COCG Allmoter Range and Backscater Oually Flags have been after one or more records  CS_OFFL_SIR_GOPM_2_202206107128483_20220610713959_C0001  CS_OFFL_SIR_GOPM_2_202206107130955_20220610713505_C0001  CS_OFFL_SIR_GOPM_2_202206107130955_20220610713505_C0001  CS_OFFL_SIR_GOPM_2_202206107130955_20220610713505_C0001  CS_OFFL_SIR_GOPM_2_202206107140955_20220610713505_C0001  CS_OFFL_SIR_GOPM_2_202206107140955_202206107140965_C0001  CS_OFFL_SIR_GOPM_2_202206107140965_C0001  CS_OFFL_SIR_GOPM_2_20220610714091_202206107140965_C0001  CS_OFFL_SIR_GOPM_2_20220610714096_C0001  CS_OFFL_SIR_GOPM_2_20220610716096_C0001  CS_OFFL_SIR_GOPM_2_20220610716096_C0001  CS_OFFL_SIR_GOPM_2_20220610716096_C0001  CS_OFFL_SIR_GOPM_2_20220610716096_C00017160996_C0001  CS_OFFL_SIR_GOPM_2_20220610716096_C00017160996_C0001  CS_OFFL_SIR_GOPM_2_20220610716096_C00017160996_C000171	CS_OFFL_SIR_GOPM_2_20220610T113029_20220610T113611_C001		
and the COCG Allimeter Range and Backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T130543_C001  CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T130505_C001  CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T130505_C001  CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T130505_C001  CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T130505_C001  CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T130505_C001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_C001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_C001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_C001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_C001  CS_OFFL_SIR_GOPM_2_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T160934_20220610T140936_C001  CS_OFFL_SIR_GOPM_2_20220610T160934_20220610T160940_C001  CS_OFFL_SIR_GOPM_2_20220610T160934_20220610T160940_C001  CS_OFFL_SIR_GOPM_2_20220610T160933_20220610T160940_C001  CS_OFFL_SIR_GOPM_2_20220610T160933_20220610T	CS_OFFL_SIR_GOPM_2_20220610T114252_20220610T121556_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOA Allmeter Range and Backscatter Quality Flags have been set for one or new records  CS_OFFL_SIR_GOPM_2_80220610T130955_80220610T131505_C001  CS_OFFL_SIR_GOPM_2_80220610T130955_80220610T135741_C001  CS_OFFL_SIR_GOPM_2_80220610T132138_8_20220610T135741_C001  CS_OFFL_SIR_GOPM_2_80220610T132138_8_20220610T135741_C001  CS_OFFL_SIR_GOPM_2_80220610T132138_8_20220610T135741_C001  CS_OFFL_SIR_GOPM_2_80220610T132138_8_20220610T135741_C001  CS_OFFL_SIR_GOPM_2_80220610T140732_80220610T140926_C001  CS_OFFL_SIR_GOPM_2_80220610T140732_80220610T140926_C001  CS_OFFL_SIR_GOPM_2_80220610T140732_80220610T140926_C001  CS_OFFL_SIR_GOPM_2_80220610T141941_80220610T14240_C001  CS_OFFL_SIR_GOPM_2_80220610T141941_80220610T14240_C001  CS_OFFL_SIR_GOPM_2_80220610T140948_80280688888888888888888888888888888888	CS_OFFL_SIR_GOPM_2_20220610T122843_20220610T122959_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220610T13218_20220610T14936_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_0001  CS_OFFL_SIR_GOPM_2_20220610T140732_00000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20220610T124843_20220610T130543_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 Flags have been and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags and the OCGO Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220610T16983_20220610T162840_C001  CS_OFFL_SIR_GOPM_2_20220610T16993_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163319_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_	CS_OFFL_SIR_GOPM_2_20220610T130955_20220610T131505_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Cosan Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backsc	CS_OFFL_SIR_GOPM_2_20220610T132138_20220610T135741_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality, COG Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality, COG Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range, SPHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163319_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T16539_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T16539_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220	CS_OFFL_SIR_GOPM_2_20220610T140732_20220610T140926_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T142459_20220610T144316_CO01  and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20220610T150134_20220610T153739_CO01  CS_OFFL_SIR_GOPM_2_20220610T150134_20220610T160840_CO01  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T160840_CO01  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T162240_CO01  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T162240_CO01  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_CO01  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_CO01  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_CO01  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T165539_CO01  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_CO01  CS_OFFL_SIR_GOPM_2_20220610T16740_20220610T170702_CO01  CC_OMA Number Range and Backscatter Quality COCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Alt	CS_OFFL_SIR_GOPM_2_20220610T141941_20220610T142420_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220610T150134_20220610T160840_C001  CS_OFFL_SIR_GOPM_2_20220610T154958_20220610T160840_C001  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T160840_C001  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T160840_C001  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T162240_C001  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T162240_C001  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163319_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T16539_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T16539_C001  CS_OFFL_SIR_GOPM_2_20220610T1640031_20220610T16559_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_202206	CS_OFFL_SIR_GOPM_2_20220610T142459_20220610T144316_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T162240_C001  CS_OFFL_SIR_GOPM_2_20220610T163319_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T165539_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T165539_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  And Backscatter Quality and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001	CS_OFFL_SIR_GOPM_2_20220610T150134_20220610T153739_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_20220610T163119_20220610T163317_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163319_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T165539_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T1653170702_C001  CS_OF	CS_OFFL_SIR_GOPM_2_20220610T154958_20220610T160840_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T163414_20220610T163819_C001  Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001  CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T165539_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  Backscatter Quality  CCGAltimeter Range and Backscatter Quality, OCOG 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  CCGA 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGOFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  CCGA Ritimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGOFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  CCGARAItimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGOFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220610T160923_20220610T162240_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220610T163119_20220610T163317_C001		
CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T165539_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  Cs_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  Cs_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220610T163444_20220610T163819_C001		
CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a	CS_OFFL_SIR_GOPM_2_20220610T164031_20220610T165539_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220610T165740_20220610T170702_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20220610T172913_20220610T173200_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20220610T173258_20220610T174624_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_20220610T180239_20220610T180347_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_20220610T181248_20220610T181721_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_20220610T182006_20220610T183409_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_20220610T191241_20220610T191953_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_20220610T192032_20220610T194440_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_20220610T194754_20220610T195010_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_20220610T195014_20220610T195617_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_20220610T195954_20220610T202441_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_20220610T205735_20220610T212329_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_20220610T213006_20220610T213421_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_20220610T213845_20220610T220431_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_20220610T220533_20220610T220725_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_20220610T220533_20220610T220725_C001  CS_OFFL_SIR_GOPM_2_20220610T221432_20220610T221527_C001	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T221432_20220610T221527_C001	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_GOPM_2_20220610T221432_20220610T221527_C001  CS_OFFL_SIR_GOPM_2_20220610T230918_20220610T231459_C001	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T221432_20220610T221527_C001  CS_OFFL_SIR_GOPM_2_20220610T230918_20220610T231459_C001  CS_OFFL_SIR_GOPM_2_20220610T231749_20220610T232240_C001	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T221432_20220610T221527_C001  CS_OFFL_SIR_GOPM_2_20220610T230918_20220610T231459_C001  CS_OFFL_SIR_GOPM_2_20220610T231749_20220610T232240_C001  CS_OFFL_SIR_GOPM_2_20220610T235358_20220610T235518_C001	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220610T221432_20220610T221527_C001  CS_OFFL_SIR_GOPM_2_20220610T230918_20220610T231459_C001  CS_OFFL_SIR_GOPM_2_20220610T231749_20220610T232240_C001  CS_OFFL_SIR_GOPM_2_20220610T235358_20220610T235518_C001  CS_OFFL_SIR_GOPM_2_20220610T005538_20220610T005622_C001	Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean 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_20220610T000514_20220610T000633_C001	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_20220610T002423_20220610T002523_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records

		The COOC Description of Deslayant Coults Flore have been described.
CS_OFFL_SIR_GOPN_2_20220610T003749_20220610T003826_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220610T005538_20220610T005622_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220610T005629_20220610T005713_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_20220610T014410_20220610T014535_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_20220610T020709_20220610T020831_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_20220610T022439_20220610T022747_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_20220610T040102_20220610T040223_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_20220610T040548_20220610T040646_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_20220610T045107_20220610T045247_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_20220610T051731_20220610T051837_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_20220610T053934_20220610T054236_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_20220610T054346_20220610T054601_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_20220610T072029_20220610T072425_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_20220610T074054_20220610T074438_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_20220610T081954_20220610T082151_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_20220610T091407_20220610T091421_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_20220610T094854_20220610T095029_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_20220610T103622_20220610T103829_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_20220610T103834_20220610T104003_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_20220610T104003_20220610T104008_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_20220610T104745_20220610T104811_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_20220610T130829_20220610T130955_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_20220610T144859_20220610T145155_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_20220610T145408_20220610T145928_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_20220610T154504_20220610T154924_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_20220610T162844_20220610T163119_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_20220610T170703_20220610T171026_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and Altimeter Range, SSHA, SWH and	set for one or  Juality Flags Shave been  Set for one or  Juality Flags Shave been  Juality Flags Shave been  Juality Flags
CS_OFFL_SIR_GOPN_2_20220610T180137_20220610T180238_C001  CS_OFFL_SIR_GOPN_2_20220610T180137_20220610T180238_C001  CS_OFFL_SIR_GOPN_2_20220610T180137_20220610T180238_C001  CS_OFFL_SIR_GOPN_2_20220610T181721_20220610T181906_C001  CS_OFFL_SIR_GOPN_2_20220610T181721_20220610T181906_C001  CS_OFFL_SIR_GOPN_2_20220610T184404_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T184404_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T184404_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T190321_20220610T190544_C001  CS_OFFL_SIR_GOPN_2_20220610T190321_20220610T190544_	uality Flags s have been set for one or set for one or uality Flags s have been uality Flags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPN_2_20220610T181721_20220610T181906_C001  CS_OFFL_SIR_GOPN_2_20220610T184404_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T184444_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T190321_20220610T190544_C001  CS_OFFL_SIR_GOPN_2_20220610	set for one or
CS_OFFL_SIR_GOPN_2_20220610T184404_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T1844404_20220610T184440_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184637_C001  CS_OFFL_SIR_GOPN_2_20220610T190321_20220610T190544_C001  CS_OFFL_SIR_GOPN_2_20220610T190321_20220610T190544	set for one or
CS_OFFL_SIR_GOPN_2_20220610T184441_20220610T184440_C001  OCOG Backscatter Quality DLRM, OCOG Range and Backscatter Quality Flags have been some records  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records  The Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags set for one or more records	set for one or uality Flags s have been uality Flags
OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags set for one or more records  Ocean Altimeter Range, SSHA, SWH	uality Flags s have been uality Flags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM	s have been uality Flags
CS_OFFL_SIR_GOPN_2_20220610T190605_20220610T190746_C001  Altimater Range and Backscatter Quality PLRM  and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality	nave been
CS_OFFL_SIR_GOPN_2_20220610T194603_20220610T194754_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been some records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T202441_20220610T202804_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been smore records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T204307_20220610T204741_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 PLRM and Backscatter Quality PLRM	
CS_OFFL_SIR_GOPN_2_20220610T205333_20220610T205546_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been some records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T212541_20220610T212719_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been some records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T212839_20220610T213006_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been smore records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T213421_20220610T213714_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been smore records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T222504_20220610T223024_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been some records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T230535_20220610T230917_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been some records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T231459_20220610T231613_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been smore records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T233152_20220610T233526_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been smore records	et for one or
CS_OFFL_SIR_GOPN_2_20220610T235543_20220610T235640_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been smore records	et for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flams and Backscatter Quality Flams.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flams at for one or more records.	
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 PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range and Backscatter Quality PL	
CS_OFFL_SIR_GOPR_2_20220610T022747_20220610T023534_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 set for one or more records	
CS_OFFL_SIR_GOPR_2_20220610T031049_20220610T031201_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 PLRM and Backscatter Quality PLRM	
CS_OFFL_SIR_GOPR_2_20220610T032358_20220610T032955_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 Backscatter Quality PLRM	

CS_OFFL_SIR_GOPR_2_20220610T040045_20220610T040102_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_20220610T040646_20220610T041229_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_20220610T050211_20220610T050734_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_20220610T054236_20220610T054346_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_20220610T054601_20220610T055107_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_20220610T055107_20220610T055255_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_20220610T070850_20220610T070904_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_20220610T071710_20220610T072006_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_20220610T072426_20220610T072948_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_20220610T073020_20220610T073114_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_20220610T082152_20220610T082317_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_20220610T090248_20220610T091234_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_20220610T104008_20220610T104745_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_20220610T112704_20220610T112907_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_20220610T113927_20220610T114251_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_20220610T121859_20220610T122557_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_20220610T123110_20220610T123439_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_20220610T130543_20220610T130829_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_20220610T131810_20220610T132137_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_20220610T135741_20220610T140456_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_20220610T140456_20220610T140731_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_20220610T144317_20220610T144858_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_20220610T145929_20220610T150134_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_20220610T153740_20220610T153833_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_20220610T153929_20220610T154350_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_20220610T162240_20220610T162844_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_20220610T171718_20220610T172216_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_20220610T172216_20220610T172359_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
	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_20220610T184215_20220610T184258_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_20220610T185712_20220610T190321_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_20220610T194440_20220610T194602_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_20220610T221527_20220610T222504_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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

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

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

Number of products with errors:

### 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.

umber of products with errors:

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

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

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

Number of products with errors:

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

## 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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: 30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220610T000029_20220610T005006_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_20220610T005006_20220610T013943_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_20220610T013943_20220610T022920_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220220610T022920_20220610T031857_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_20220610T031857_20220610T040834_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_20220610T040834_20220610T045811_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_20220610T045811_20220610T054748_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_20220610T054748_20220610T063725_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_20220610T063725_20220610T072703_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_20220610T072703_20220610T081640_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_20220610T081640_20220610T090617_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_20220610T090617_20220610T095554_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_20220610T095554_20220610T104531_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_20220610T104531_20220610T113508_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_20220610T113508_20220610T122445_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_20220610T122445_20220610T131422_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_20220610T131422_20220610T140359_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_20220610T140359_20220610T145336_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_20220610T145336_20220610T154314_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_20220610T154314_20220610T163251_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_20220610T163251_20220610T172228_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_20220610T172228_20220610T181205_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_20220610T181205_20220610T190142_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_20220610T190142_20220610T195119_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_20220610T195119_20220610T204056_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_20220610T204056_20220610T213033_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_20220610T213033_20220610T222011_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_20220610T222011_20220610T230948_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_20220610T230948_20220610T235925_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220610T235925_20220611T004902_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:

## 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:

29

## 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.

## 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:

30

### 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:

28

### 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:

30

## 7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	166	166	3	163	0
SIR_GOPR1B	108	108	0	108	0
SIR_GOPN1B	111	111	4	107	0
SIR_GOPM_2	166	166	118	48	0
SIR_GOPR_2	108	108	32	76	0
SIR_GOPN_2	111	111	44	67	0
SIR GOP P2P	30	30	0	30	0

### 7.1 QCC Errors

Number of QCC reports with errors:

0

# 7.2 QCC Warnings

Number of QCC reports with warnings

2220

Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOPM1B	163	0	0	0	0	0	0
SIR_GOPM_2	0	37	40	0	37	0	35
SIR_GOPN1B	106	0	0	0	0	0	0
SIR_GOPN_2	0	11	38	3	30	32	24
SIR_GOPR1B	102	0	0	0	0	0	0
SIR_GOPR_2	0	40	48	0	32	27	10

-								
	Product Type	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
ſ	SIR_GOPM1B	0	0	0	0	0	0	0
	SIR_GOPM_2	1	0	33	0	0	0	0
	SIR_GOPN1B	0	0	0	0	0	0	0
	SIR_GOPN_2	0	0	0	0	26	0	37
	SIR GOPR1B	0	0	0	0	0	0	0
	SIR GOPR 2	0	1	0	49	0	52	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	24	0	0	9	22	0	6
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	33	22	47	57	35
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	48	0	0	65	40	9

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_GOPM1B	0	0	0	0	0	0	
SIR_GOPM_2	31	0	3	0	0	0	
SIR_GOPN1B	0	0	0	0	47	1	
SIR_GOPN_2	30	32	15	2	0	0	
SIR_GOPR1B	0	0	0	0	108	8	
SIR_GOPR_2	42	50	1	1	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOP_2_	15	30	30	3	30	19	30

Product Type	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	1	1	18	29	25	19	30
			•				

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•
SIR GOP 2	19	25	30	20	14	30	

Test Description Key:				
Abbreviation	Test name	Details		
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter		
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only		
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		

	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for
	surface type = ocean
excludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
asCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
eHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
eHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
eHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
NaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
NaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
er1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
StepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
StepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter
	ExcludingPolarOPFD2PLRMSARNetCDF  ExcludingPolarOPFD2PLRMSINNetCDF  ExcludingPolarOPFD2SARNetCDF  ExcludingPolarOPFD2SINNetCDF  ExcludingPolarOPFD2SINNetCDF  ExcludingPolarOPSARNetCDF  ExcludingPolarOPSARNetCDF  ExcludingPolarOPSARNetCDF  ExcludingPolarOPSINNetCDF  asCorrectionOceanNetCDF  BeleightAnomalyOceanFD3PLRMNetCDF  BeleightAnomalyOceanFD3PLRMNetCDF  BeleightAnomalyOceanFD3PLRMNetCDF  BeleightAnomalyOceanExcludingPolarFD2NetCDF  WaveHeightOceanExcludingPolarFD2PLRMNetCDF  WaveHeightOceanExcludingPolarFD2PLRMNetCDF  BeleightAnomalyOceanExcludingPolarFD2PLRMNetCDF  WaveHeightOceanExcludingPolarNetCDF  BeleightAnomalyOceanExcludingPolarNetCDF  BeleightAnomalyOceanExcludingPolarNetCDF

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0