

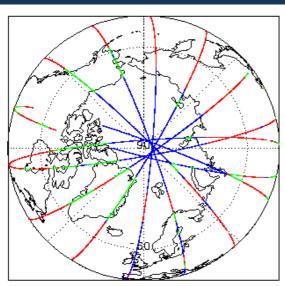
# 1. Overview

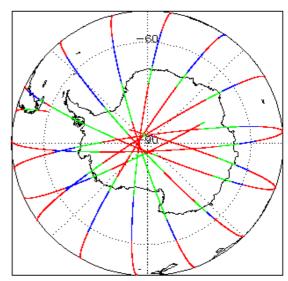
Report Production:	16-Nov-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

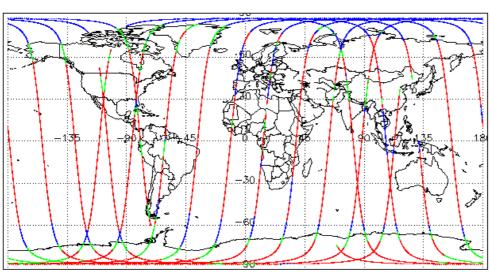
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

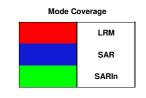
Mission / Instru	ment News
06-Oct-2022	None
07-Oct-2022	Unplanned SIRAL unavailability from 07/10/2022 15:32:31 to 08/10/2022 07:16:55
08-Oct-2022	Unplanned SIRAL unavailability from 07/10/2022 15:32:31 to 08/10/2022 07:16:55

# 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:

Λ

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

14

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221007T054139_20221007T061328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221007T085922_20221007T093405_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221007T043343_20221007T043746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221007T094254_20221007T094657_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221007T112452_20221007T112727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221007T120132_20221007T120458_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221007T130109_20221007T130328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221007T143608_20221007T143631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221007T001218_20221007T001301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221007T012216_20221007T012737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221007T014256_20221007T014401_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221007T084140_20221007T084628_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221007T125500_20221007T130109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221007T152103_20221007T152328_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:

26

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221007T143149_20221007T143209_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_20221007T002801_20221007T002948_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_20221007T004454_20221007T004719_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_20221007T011801_20221007T012216_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_20221007T021724_20221007T021929_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_20221007T043343_20221007T043746_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_20221007T052643_20221007T052807_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_20221007T053558_20221007T053711_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20221007T070612_20221007T070738_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_20221007T071250_20221007T071551_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_20221007T084628_20221007T084929_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_20221007T085152_20221007T085708_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_20221007T094254_20221007T094657_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_20221007T102631_20221007T102905_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_20221007T112144_20221007T112259_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_20221007T112452_20221007T112727_C001	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 Mean Dynamic Topography height (solution 1), 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_20221007T120132_20221007T120458_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_20221007T130109_20221007T130328_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_20221007T134349_20221007T134536_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_20221007T152328_20221007T152504_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_20221007T012216_20221007T012737_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_20221007T030039_20221007T031031_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_20221007T043747_20221007T044522_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_20221007T061656_20221007T062343_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_20221007T062343_20221007T062551_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_20221007T062945_20221007T063224_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_20221007T075529_20221007T080242_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_20221007T080242_20221007T080447_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_20221007T093535_20221007T093624_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20221007T093711_20221007T094137_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_20221007T094137_20221007T094253_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_20221007T111514_20221007T112144_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_20221007T125500_20221007T130109_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_20221007T143210_20221007T143218_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_20221007T143218_20221007T143452_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (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.

Number of products with errors:

Number of products with errors: 55		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221007T000104_20221007T001122_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_20221007T001302_20221007T002636_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_20221007T002948_20221007T003448_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_20221007T004324_20221007T004453_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_20221007T004720_20221007T005706_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_20221007T010005_20221007T010511_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_20221007T010755_20221007T011723_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_20221007T014402_20221007T020454_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_20221007T021024_20221007T021406_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_20221007T021428_20221007T021724_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_20221007T022131_20221007T024907_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_20221007T032041_20221007T034431_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_20221007T034807_20221007T035321_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_20221007T040052_20221007T043342_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_20221007T044638_20221007T044857_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_20221007T045637_20221007T050210_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_20221007T050215_20221007T050403_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_20221007T050405_20221007T051506_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_20221007T051959_20221007T052347_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_20221007T052808_20221007T053356_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Count   Figure   Dept	CS_OFFL_SIR_GOPM_2_20221007T053407_20221007T053557_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Col. OFFL. SPR. GOPPL 9 2001007T06450 20011007T06506 C011	CS_OFFL_SIR_GOPM_2_20221007T054139_20221007T061328_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DC CPFL SPR, COPPL 2 2021/07/19/29/20 CBB 1 2021/07/19/29 CBB 1 20	CS_OFFL_SIR_GOPM_2_20221007T062551_20221007T062738_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
De OFFE SIR GOPM 2 2022100/19/2002 2022100/19/2002 CIBIO PRO 19/200 PRO Altimor Pro Prop. et al Debetocation Cubilly CoDD Altimor Progress and Exhaustion Cubilly Flags have been set for or or or not record.  Co. OFFE SIR COPM 2 2022100/19/2002 2022100/19/2002 CIBIO PRO 19/200 PRO 19/20	CS_OFFL_SIR_GOPM_2_20221007T064858_20221007T065046_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dec. OFFL. SRI. COPML 2. 20221007T09204. 20221007T09205. COOL  Col. OFFL. SRI. COPML 2. 20221007T09204. 20221007T09205. COOL  Afferting Flagga and Redescate Custly Flagg. State Agent and Explanation Custly Flagg. State See Conference Service. State Agent and Explanation Custly Flagga and Redescate Custly Flagga Service Agent Agent and Explanation Custly Flagga Service Agent A	CS_OFFL_SIR_GOPM_2_20221007T065203_20221007T070205_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GB_OFFL_SRI_GOPML_2_200210071090542_20021007109055_20021007109056_2001  CB_OFFL_SRI_GOPML_2_20021007109055_20021007109056_2001  CB_OFFL_SRI_GOPML_2_20021007109055_20021007109056_2001  CB_OFFL_SRI_GOPML_2_20021007109055_20021007109056_2001  CB_OFFL_SRI_GOPML_2_20021007109055_20021007109056_2001  CB_OFFL_SRI_GOPML_2_20021007109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_200210071109055_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110905_20021007110906_2001  CB_OFFL_SRI_GOPML_2_20021007110906_20010110906_2001  CB_OFFL_SRI_GOPML_2_20021007110906_20010110906_2001  CB_OFFL_SRI_GOPML_2_20021007110906_20021007110906_200101  CB_OFFL_SRI_GOPML_2_20021007110906_20021007110906_200101  CB_OFFL_SRI_GOPML_2_20021007110906_20021007110906_200101  CB_OFFL_SRI_GOPML_2_20021007110906_20021007110906_20010	CS_OFFL_SIR_GOPM_2_20221007T070738_20221007T071249_C001		
08_0FFL_SIR_0OPM_2_200210071108044_200210071108140_C001  CS_0FFL_SIR_OOPM_2_20021007108044_20021007108044_2001  CS_0FFL_SIR_OOPM_2_200210071080344_20021007108044_C001  CS_0FFL_SIR_OOPM_2_20021007108044_20021007108044_C001  CS_0FFL_SIR_OOPM_2_20021007108044_20021007110804_C001  CS_0FFL_SIR_OOPM_2_200210071108044_20021007110804_C001  CS_0FFL_SIR_OOPM_2_200210071108044_20021007110804_C001  CS_0FFL_SIR_OOPM_2_20021007110804_2001  CS_0FFL_SIR_OOPM_2_2002100711080	CS_OFFL_SIR_GOPM_2_20221007T072000_20221007T074103_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Basacacter Caulity, CCO. Altraneter Range and Basacacter Caulity Caulity and Basacacter Caulity Caulity and Basacacter Caulity Caulity Cook. Altraneter Range and Basacacter Caulity Caulity and Basacacter Caulity Caulity and Basacacter Caulity Caulity Cook. Altraneter Range and Basacacter Caulity Caulity Range Range and Basacacter Caulity Range Range and Basacacter Caulity Range Rang	CS_OFFL_SIR_GOPM_2_20221007T074348_20221007T075529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Allmeter Range and Backscatter Quality Rape have been Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been all properties of the Coop Allmeter Range and Backscatter Quality Flage have been set on the Coop Allmeter Range and Backscatter Quality Flage have been set on the Coop Allmeter Range and Backscatter Quality Flage have been set on the Coop Allmeter Range and Backscatter Quality Flage have been set on the Coop Allmeter Range and Backscatter Quality Flage have been set on the Coop Allmeter R	CS_OFFL_SIR_GOPM_2_20221007T080447_20221007T080712_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
or Backscate Coustly, COCG Alterneter Range and Backscater Coustly Flags have been active Range and Backscater Coustly Flags and Backscater Coustly Flags and Backscater Coustly Flags have been active Range and Backscater Coustly Flags and Backscater Coustly Flags have been active Range and Backscater Coustly Flags and Backscater Coustly Flags and Backscater Coustly Flags have been active Range	CS_OFFL_SIR_GOPM_2_20221007T082344_20221007T084140_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flasboscatter Quality, COGG Altmeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20221007T103042_4_20221007T103604_C001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103604_C001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103604_C001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103604_C001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103604_C001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103604_C001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103835_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103835_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103835_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T103835_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_20001071103835_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_2000107110383_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_2000107110383_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_2000107110383_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_2000107110383_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_2000107110383_20001  CS_OFFL_SIR_GOPM_2_20221007T103835_20001071103833_20001071103835_20001071103835_20001071103833_20001071103835_20001071103835_	CS_OFFL_SIR_GOPM_2_20221007T085922_20221007T093405_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221007T100782_20221007T103664_C001  CS_OFFL_SIR_GOPM_2_20221007T103844_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T103845_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T103845_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T103845_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T103845_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T103845_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T10259_20221007T10592_C001  CS_OFFL_SIR_GOPM_2_20221007T10259_20221007T112450_C001  CS_OFFL_SIR_GOPM_2_20221007T10259_20221007T112450_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T12032_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121034_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T12104_C001  CS_OFFL_SIR_GOPM_2_20221007T12034_C001  CS_OFFL_SIR_GOPM_2_20221007T12034_C001  CS_OFFL_SIR_GOPM_2_20221007T12034_C001  CCCGA Altimeter Range Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more rec	CS_OFFL_SIR_GOPM_2_20221007T094712_20221007T100649_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20221007T11289_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T112289_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T112289_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T11228_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T11288_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T11288_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T12014_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T12014_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T12044_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T12104_C001  CS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T12106_20221007T12106_C001  CCS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CCS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CCS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CCS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CCS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CCS_OFFL_SIR_GOPM_2_20221007T130642_20221007T136400_C001  CCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCCS_OFFL_SIR_GOPM_2_20221007T13450_C001  CCC	CS_OFFL_SIR_GOPM_2_20221007T100707_20221007T101956_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T112259_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T112259_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T112728_20221007T112451_C001  CS_OFFL_SIR_GOPM_2_20221007T112728_20221007T112459_C001  CS_OFFL_SIR_GOPM_2_20221007T112728_20221007T1120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120733_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120733_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120733_20221007T12056_C001  CS_OFFL_SIR_GOPM_2_20221007T12056_2021007T121566_C001  CS_OFFL_SIR_GOPM_2_20221007T121616_20221007T12156_C001  CS_OFFL_SIR_GOPM_2_20221007T121616_20221007T12056_C001  CS_OFFL_SIR_GOPM_2_20221007T12166_2021007T12056_C001  CS_OFFL_SIR_GOPM_2_20221007T12166_2021007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_20221007T134507_20221007T134500_C001  CS_OFFL_SIR_GOPM_2_	CS_OFFL_SIR_GOPM_2_20221007T103244_20221007T103604_C001		, ,
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20221007T112788_20221007T114409_C001  CS_OFFL_SIR_GOPM_2_20221007T112788_20221007T112033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T12044_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121046_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T121506_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T121506_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T121354_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T12036_C001  CS_OFFL_SIR_GOPM_2_20221007T12036_20221007T12036_C001  CS_OFFL_SIR_GOPM_2_20221007T120362_20221007T120365_C001  CS_OFFL_SIR_GOPM_2_20221007T120362_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130605_C001  CS_OFFL_SIR_GOPM	CS_OFFL_SIR_GOPM_2_20221007T103835_20221007T105325_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 pack CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121024_C001  CS_OFFL_SIR_GOPM_2_20221007T12033_20221007T121024_C001  CS_OFFL_SIR_GOPM_2_20221007T121036_20221007T121066_C001  CS_OFFL_SIR_GOPM_2_20221007T121036_20221007T121066_C001  CS_OFFL_SIR_GOPM_2_20221007T1213154_C001  CS_OFFL_SIR_GOPM_2_20221007T1213166_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130605_C001  CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T130605_C001  CCGA Altimeter Range and Backscatter Quality COCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCCGA Altimeter Range Quality, COCGA Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20221007T112259_20221007T112451_C001		
S_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_CO01  and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T121036_20221007T121024_CO01  CS_OFFL_SIR_GOPM_2_20221007T121036_20221007T121506_CO01  CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T123154_CO01  CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T123154_CO01  CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_CO01  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  COOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  COOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T134409_CO01  COOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  COOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  COOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  COOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  COOGA Altimeter Ra	CS_OFFL_SIR_GOPM_2_20221007T112728_20221007T114409_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20221007T121036_20221007T121506_C001  CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T123154_C001  CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T123154_C001  CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T13	CS_OFFL_SIR_GOPM_2_20221007T120033_20221007T120132_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T123154_C001  CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T130552_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130605_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T145509_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T145509_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T145509_C001  CS_OFFL_SIR_GOPM_2_200221007T135751_20221007T145509_C001  CS_OFFL_SIR_GOPM_2_200221007T135751_20221007T135751_20221007T145509_C001  CS_OFFL_SIR_GOPM_2_200221007T135751_20221007T135751_20221007T145509_C001  CS_OFFL_SIR_GOPM_2_200221007T135751_20221	CS_OFFL_SIR_GOPM_2_20221007T120733_20221007T121024_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20221007T121036_20221007T121506_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T135751_20221007T142200_C001  And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T1	CS_OFFL_SIR_GOPM_2_20221007T121816_20221007T123154_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  Cs_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  Cs_OFFL_SIR_GOPM_2_20221007T135751_20221007T135751_20221007T142200_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  Cs_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  Cs_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221007T130552_20221007T130605_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221007T131900_20221007T134150_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001  CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001  and Backscatter Quality, OCOG Backscatter 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_20221007T135751_20221007T142200_C001  The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221007T130642_20221007T130903_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records  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_20221007T131900_20221007T134150_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20221007T134537_20221007T135409_C001		
	CS_OFFL_SIR_GOPM_2_20221007T135751_20221007T142200_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20221007T144524_20221007T144611_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_20221007T145334_20221007T152103_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_20221007T152751_20221007T153208_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221007T004454_20221007T004719_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221007T010511_20221007T010633_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221007T031845_20221007T031850_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221007T093635_20221007T093710_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221007T121506_20221007T121649_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

67

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20221007T005707_20221007T010004_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_20221007T011724_20221007T011728_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_20221007T011801_20221007T012216_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_20221007T012738_20221007T012801_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_20221007T013828_20221007T014227_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_20221007T020707_20221007T021024_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_20221007T024908_20221007T025143_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_20221007T031052_20221007T031215_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_20221007T031951_20221007T032041_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_20221007T034630_20221007T034807_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_20221007T043343_20221007T043746_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_20221007T044522_20221007T044557_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_20221007T052643_20221007T052807_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_20221007T061446_20221007T061655_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_20221007T083404_20221007T085447_C0001  CS_OFFL_SIR_GOPN_2_20221007T084319_20221007T08403_C001  CS_OFFL_SIR_GOPN_2_20221007T084319_20221007T070738_C001  CS_OFFL_SIR_GOPN_2_20221007T0707612_20221007T070738_C001  CS_OFFL_SIR_GOPN_2_20221007T0707512_20221007T070738_C001  CS_OFFL_SIR_GOPN_2_20221007T070758_C001  CS_OFFL_SIR_GOPN_2_20221007T070758_C001  CS_OFFL_SIR_GOPN_2_20221007T084628_20221007T0707591_C001  CS_OFFL_SIR_GOPN_2_20221007T084628_20221007T084029_C001  CS_OFFL_SIR_GOPN_2_20221007T084628_20221007T085788_C001  CS_OFFL_SIR_GOPN_2_20221007T085552_20221007T085788_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T095858_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093658_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093658_C001  CS_OFFL_SIR_GOPN_2_20221007T1093625_20221007T093658_C001  CS_OFFL_SIR_GOPN_2_20221007T1093625_20221007T1093658_C001  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T109365_C001  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T102605_C001  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T102605_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_20221007T1076485_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_20221007T1076485_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_20221007T1076485_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_C0021007T1076485_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_C0021007T11076485_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_C0021007T11076485_C001  CS_OFFL_SIR_GOPN_2_20221007T11076425_C0021007T11076485_C001  CCG_OFFL_SIR_GOPN_2_20221007T11076485_C001  CCG_OFFL_	for one or  ity Flags ave been  for one or  ity Flags ave been  ity Flags ave been  ity Flags ave been  ity Flags ave been  for one or
OCOG Backscater Quality  CS_OFFL_SIR_GOPN_2_20221007T070612_20221007T070738_C001  CS_OFFL_SIR_GOPN_2_20221007T070612_20221007T070738_C001  CS_OFFL_SIR_GOPN_2_20221007T071250_20221007T071551_C001  CS_OFFL_SIR_GOPN_2_20221007T071250_20221007T071551_C001  CS_OFFL_SIR_GOPN_2_20221007T084828_20221007T084929_C001  CS_OFFL_SIR_GOPN_2_20221007T084628_20221007T084929_C001  CS_OFFL_SIR_GOPN_2_20221007T0845152_20221007T084528_C001  CS_OFFL_SIR_GOPN_2_20221007T084528_20221007T085788_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_C001  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_C001  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T102905_C001  CS_OFFL_SIR_GOPN_2_20221007T102601_20221007T102905_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T110302_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T110302_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T110302_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T110302_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T110302_20221007T110333_C001  CCCG_Altimeter Range Quality PLRM. CCCG_Altimeter Range and Backscatter Quality Flags have been set more records  CCCG_Altimeter Range Guality PLRM. CCCG_Altimeter Range and Backscatter Quality Flags have been set more records  CCCG_Altimeter Range Quality PLRM. CCCG_Altimeter Range and Backscatter Quality Flags have been set more records  CCCG_Altimeter Range Quality PLRM. CCCG_Altimeter Range and Backscatter Quality Flags have been set more records  CCCG_Altimeter Range Quality PLRM. CCCG_Altimeter Range Guality PLRM. CCCG_Altimeter Range Guality PLRM. CCCG_Altimeter Range Guality PLRM.	ity Flags ave been ity Flags ave been for one or ity Flags ave been ity Flags ave been ity Flags ave been for one or
and Backscatter Quality PLRM, OOCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags in Section of one or more records  CS_OFFL_SIR_GOPN_2_20221007T071250_20221007T071551_CO01  CS_OFFL_SIR_GOPN_2_20221007T084628_20221007T084929_CO01  CS_OFFL_SIR_GOPN_2_20221007T084628_20221007T084929_CO01  CS_OFFL_SIR_GOPN_2_20221007T084528_20221007T084929_CO01  CS_OFFL_SIR_GOPN_2_20221007T085152_20221007T085708_CO01  CS_OFFL_SIR_GOPN_2_20221007T085152_20221007T085708_CO01  CS_OFFL_SIR_GOPN_2_20221007T085152_20221007T085708_CO01  CS_OFFL_SIR_GOPN_2_20221007T085152_20221007T093628_CO01  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_CO01  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_CO01  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_CO01  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_CO01  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_CO01  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_CO01  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T102905_CO01  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T102905_CO01  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T103733_CO01  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_CO01  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_CO01  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CCG_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CCG_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CCG_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CCG_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CCG_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_CO01  CCG_OFFL_SIR_GOPN_2_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_20221007T1103604_202	ity Flags ave been for one or ity Flags ave been ity Flags ave been ity Flags ave been for one or
and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags in the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags in the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags in the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags in the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags in the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Altimeter Range and Backscatter Quality Plags in the OCOG Range and Backscatter Qual	for one or ity Flags ave been ity Flags ave been ity Flags ave been for one or
OCOG Backscatter Quality  CS_OFFL_SIR_GOPN_2_20221007T085152_20221007T085708_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_C001  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_C001  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T102905_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T110333_C001  CS_OFFL_SIR_GOPN_2_20221007T1103604_20221007T11036	ity Flags ave been ity Flags ave been ity Flags ave been for one or
Alimeter Range and Backscatter Quality PLRM, OCGA Altimeter Range and Backscatter Quality Flags have been set more records  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T1093628_C001  Alimeter Range and Backscatter Quality Flags have been set more records  CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T1093628_C001  CS_OFFL_SIR_GOPN_2_20221007T094254_20221007T094657_C001  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T102905_C001  CS_OFFL_SIR_GOPN_2_20221007T102631_20221007T102905_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103833_C001  CS_OFFL_SIR_GOPN_2_20221007T1103904_20221007T110833_C001  CS_OFFL_SIR_GOPN_2_20221007T1103904_20221007T1103904_20221007T110833_C001  CCOGA Altimeter Range Quality PLRM, OCOGA Range and Backscatter Quality Flags have been set more records  CCOGA Altimeter Range Quality PLRM, OCOGA Range and Backscatter Quality Flags have been set more records  CCOGA Altimeter Range Quality PLRM, OCOGA Range and Backscatter Quality Flags have been set more records  CCOGA Altimeter Range Quality PLRM, OCOGA Range and Backscatter Quality Flags have been set more records	ity Flags ave been ity Flags ave been for one or
CS_OFFL_SIR_GOPN_2_20221007T093625_20221007T093628_C001  And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range 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 and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter 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 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backsca	ave been ity Flags ave been for one or
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Qual	ave been
CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  CS_OFFL_SIR_GOPN_2_20221007T110732_20221007T110833_C001  CS_OFFL_SIR_GOPN_2_20221007T110732_20221007T110833_C001  CS_OFFL_SIR_GOPN_2_20221007T110732_20221007T110833_C001  CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T1120132_20221007T1120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  CCG_G Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records  The Ocog Range and Backscatter Quality Flags have been set more records  The OCOG Range and Backscatter Quality Flags have been set more records  The Ocog Range and Backscatter Quality Flags have been set more records  The OCOG Range and Backscatter Quality Flags have been set more records	
CS_OFFL_SIR_GOPN_2_20221007T103604_20221007T103733_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPN_2_20221007T110732_20221007T110833_C001  CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T1120132_20221007T1120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001	
CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  CS_OFFL_SIR_GOPN_2_20221007T120132_20221007T120458_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records	
CS_OFFL_SIR_GOPN_2_20221007T114450_20221007T114741_C001  OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, ocog Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPN_2_2022100/1120132_2022100/1120458_C001  OCOG Backscatter Quality more records	for one or
OCCC Altimator Panga Quality DLPM The OCCC Panga and Packacetter Quality Flora have been act	for one or
CS_OFFL_SIR_GOPN_2_20221007T120504_20221007T120733_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPN_2_20221007T130109_20221007T130328_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, ocog Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPN_2_20221007T130409_20221007T130551_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPN_2_20221007T130606_20221007T130642_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPN_2_20221007T143026_20221007T143149_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set more records	for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Qu	
CS_OFFL_SIR_GOPN_2_20221007T144612_20221007T144733_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPN_2_20221007T145136_20221007T145334_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPR_2_20221007T001218_20221007T001302_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPR_2_20221007T012216_20221007T012737_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 in the OCOG Altimeter Range and Backscatter Quality Flags in the OCO	
CS_OFFL_SIR_GOPR_2_20221007T012801_20221007T012903_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records  The OCOG Range and Backscatter Quality Flags have been set more records	for one or
CS_OFFL_SIR_GOPR_2_20221007T014256_20221007T014401_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records	
CS_OFFL_SIR_GOPR_2_20221007T020454_20221007T020707_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	for one or

CS_OFFL_SIR_GOPR_2_20221007T030039_20221007T031031_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_20221007T034432_20221007T034629_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_20221007T035820_20221007T035909_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_20221007T035909_20221007T040052_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_20221007T043747_20221007T044522_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_20221007T044857_20221007T045012_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_20221007T052347_20221007T052643_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_20221007T053711_20221007T054139_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_20221007T061656_20221007T062343_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_20221007T062834_20221007T062922_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_20221007T062945_20221007T063224_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_20221007T070206_20221007T070612_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_20221007T074103_20221007T074347_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_20221007T075529_20221007T080242_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_20221007T080242_20221007T080447_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_20221007T080713_20221007T081438_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_20221007T084140_20221007T084628_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_20221007T093711_20221007T094137_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_20221007T101956_20221007T102630_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_20221007T111514_20221007T112144_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_20221007T114410_20221007T114450_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_20221007T115658_20221007T115940_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_20221007T121649_20221007T121743_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_20221007T123154_20221007T123947_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_20221007T123949_20221007T124044_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_20221007T125500_20221007T130109_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

Ocean Altimeter Range, SSHA, SWH

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The Ocean Altimeter Ha

### 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

Number of products with errors:

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

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

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

# 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 Corection, 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
- > 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: 19

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20221006T234525_20221007T003501_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_2_20221007T003501_20221007T012440_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_20221007T012440_20221007T021416_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_20221007T021416_20221007T030354_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_20221007T030354_20221007T035331_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_20221007T035331_20221007T044309_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_20221007T044309_20221007T053245_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_20221007T053245_20221007T062224_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_20221007T062224_20221007T071200_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_20221007T071200_20221007T080139_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_20221007T080139_20221007T085115_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_20221007T085115_20221007T094053_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	

CS_OFFL_SIR_GOP_2_20221007T094053_20221007T103029_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_20221007T103029_20221007T112008_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_20221007T112008_20221007T120944_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_20221007T120944_20221007T125923_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_20221007T125923_20221007T134859_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_20221007T134859_20221007T143837_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_20221007T143837_20221007T152814_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.

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Number of products with errors:

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

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

Number of products with errors: 19

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

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

Number of products with errors:

# 6.8 P2P Ocean Retracking Quality Check

### P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

#### 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: