

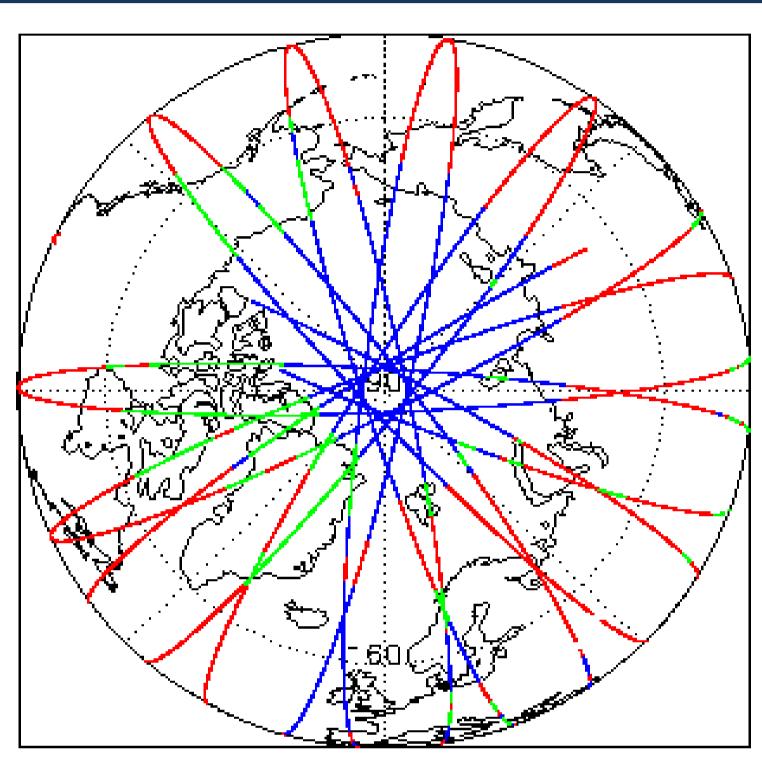
# 1. Overview

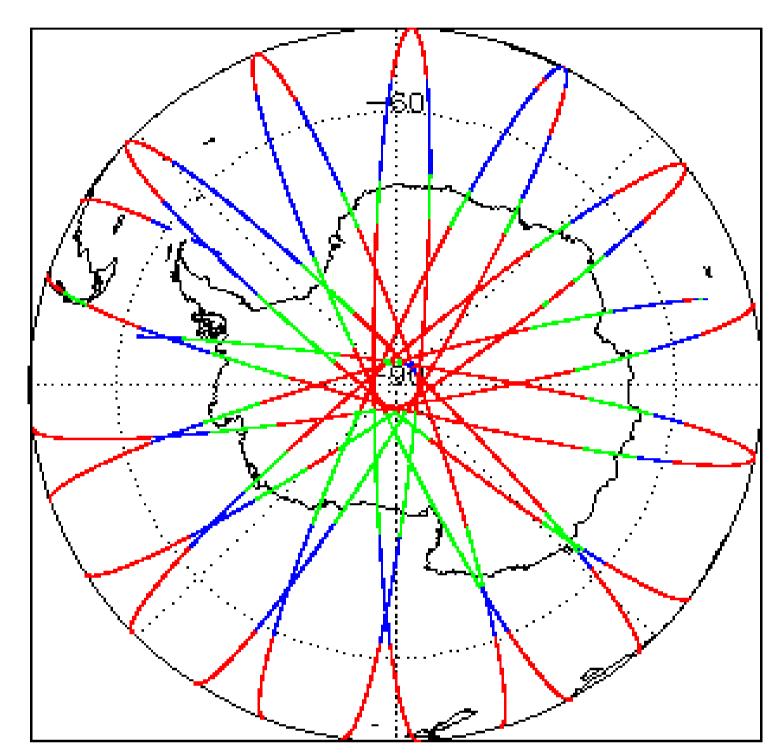
Report Production:	28-Oct-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

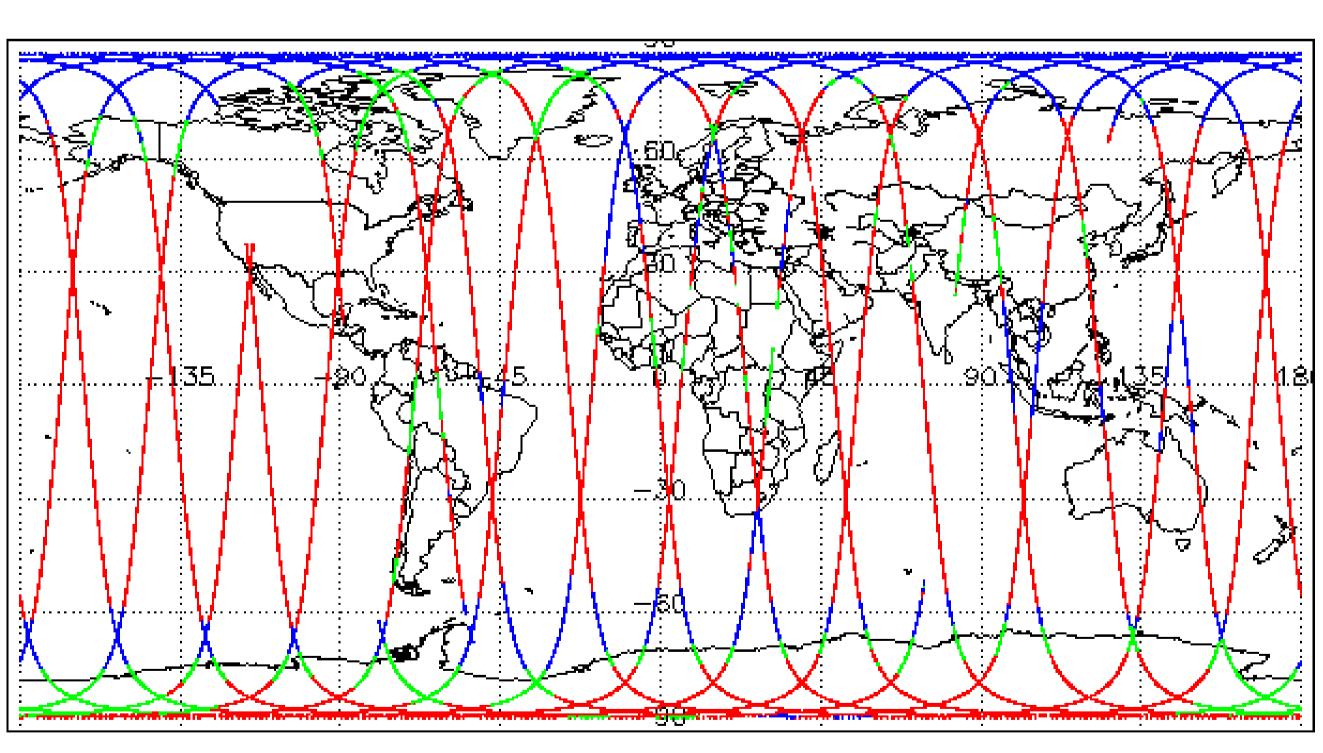
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1, 7.2 and 7.3	See Section 7.1, 7.2 and 7.3

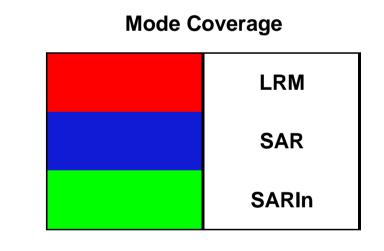
Mission / Instrument News	
27-Sep-2022	None
28-Sep-2022	None
29-Sep-2022 SIRAL unavailability from 15:35:47 to 17:21:55 due to an orbit manoeuvre	

# 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:

#### 4.5 L1B Measurement Confidence Data Check

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

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

**Number of products with errors:** 

2

0

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220928T001941_20220928T003559_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220928T140508_20220928T144008_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220928T232907_20220928T234836_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

18

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220928T001941_20220928T003559_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220928T124803_20220928T125544_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220928T170616_20220928T171311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220928T232907_20220928T234836_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T003936_20220928T004147_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T072311_20220928T072402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T104050_20220928T104553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T121958_20220928T122106_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T135914_20220928T140508_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T172129_20220928T172530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T203112_20220928T203304_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220928T230530_20220928T230727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220928T121418_20220928T121540_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220928T161901_20220928T162135_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:

### **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.

S. OPPL_S.R. COPPL_2.2222627122314_0220227114249_CO21   S. OPPL_S.R. COPPL_2.2222627122314_022022711429_CO21   S. OPPL_S.R. COPPL_2.22226271204102_0220227174329_CO21   S. OPPL_S.R. COPPL_2.22226271204102_0220227174329_CO21   S. OPPL_S.R. COPPL_2.22226271204102_0220227124140_CO21   S. OPPL_S.R. COPPL_2.22226271204102_022022712410_CO21   S. OPPL_S.R. COPPL_2.22226271204102_022022712400_CO21   S. OPPL_S.R. COPPL_2.22226271204102_02202271204102_022022712400_CO21   S. OPPL_S.R. COPPL_2.22226271204102_022022712400_CO21   S. OPPL_S.R. COPPL_2.22226271204102_02202271204102_022022712400_CO21   S. OPPL_S.R. COPPL_2.2222627120400_CO210020271040000_CO210020271040000_CO210020271040000_CO210020271040000_CO210020271040000_CO210020271040000	Product	Test Failed	Description
Security Coven The (GOT)  Security Coven The	CS_OFFL_SIR_GOPM_2_20220928T001941_20220928T003559_C001	Tiviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
19. OFFL.SR. COPN_2.202202870132.202202870047 COORD  SCHL.SR. COPN_2.202202870398, 222202870047 COORD  Man Deterri Topograchy (1) Toll Geography and a cert or with the VSS height (colution 1), the Man Deterrit Topography (1) Thesis an error with the VSS height (colution 1) and the VSS	CS_OFFL_SIR_GOPM_2_20220928T122318_20220928T124219_C001		There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
Topogney(y) 1, 12ss Geoverur Ocean Tole ((GOT))  Nean Dynamic Topogney(y) (1)  Nean Dynamic Topogney(y) (1)  Nean Sea Surface (1), Mean Dynamic Topogney(y) (2)  Nean Sea Surface (1), Mean Dynamic Topogney(y) (3)  Nean Dynamic Topogney(y) (4)  Nean Sea Surface (1), Mean Dynamic Topogney(y) (3)  Nean Dynamic Topogney(y) (4)  Nean Dynamic Topogney(y) (5)  Nean Dynamic Topogney(y) (6)  Nean Dynamic Topogney(y) (7)  Nean Sea Surface (1), Mean Dynamic Topogney(y) (8)  Nean Sea Surface (1), Mean Dynamic Topogney(y) (8)  Nean Sea Surface (1), Mean Dynamic Topogney(y) (8)  N	CS_OFFL_SIR_GOPM_2_20220928T204102_20220928T211602_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	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
As OPTL SIR GOPN 2 202208281701814 202208281702011 C001  Mean Sea Surface (1), Mean Dynamic Topography Regitt Soution 1) for die or more records  Mean Sea Surface (1), Mean Dynamic Topography Regitt Soution 1) for die or more records  S OPTL SIR GOPN 2 2022082817021619 2022082817020011 C001  Mean Sea Surface (1), Mean Dynamic Topography Regitt Soution 1) for die or more records  Mean Sea Surface (1), Mean Dynamic Topography Regitt Soution 1) for die or more records  S OPTL SIR GOPN 2 202208281708100 2022082817081042_C001  Mean Dynamic Topography (1)  There is an end with the MSS height Soution 1) and the Mean Dynamic Topography Regitt Soution 1) for one or more records  Mean Dynamic Topography (1)  There is an end with the MSS height Soution 1) and the Mean Dynamic Topography Regitt Soution 1) for one or more records  Mean Dynamic Topography (1)  There is an end with the Mean Dynamic Topography Regitt Soution 1) for one or more records  Mean Dynamic Topography (1)  There is an end with the Mean Dynamic Topography Soution 1) for one or more records  Mean Dynamic Topography (1)  There is an end with the Mean Dynamic Topography Soution 1) for or more records  Mean Dynamic Topography (1)  There is an end with the Mean Dynamic Topography Soution 1) for or more records  Mean Dynamic Topography (1)  There is an end with the Mean Dynamic Topography (2)  There is an end with the Mean Dynamic Topography (2)  There is an end with the Mean Dynamic Topography (3)  There is an end with the MSS height Soution 1) for or more records  Mean Sea Surface (1), Mean Dynamic Topography (2)  There is an end with the MSS height Soution 1) for or more records  There is an end with the MSS height Soution 1) for or more records  There is an end with the MSS height Soution 1) for or more records  There is an end with the MSS height Soution 1) for or more records  There is an end with the MSS height Soution 1) for or more records  There is an end with the MSS height Soution 1) for one or more records  There is an end with the MSS height Sou	CS_OFFL_SIR_GOPN_2_20220928T003936_20220928T004147_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
Topography (1)  Topography (2)  Mean Sas Surface (1), Nean Dynamic Topography (2)  Mean Sas Surface (1), Nean Dynamic Topography (2)  Mean Sas Surface (1), Nean Dynamic Topography (3)  Mean Sas Surface (1), Nean Dynamic Topography (4)  Mean Sas Surface (1), Nean Dynamic Topography (4)  Mean Sas Surface (1), Nean Dynamic Topography (6)  Mean Dynamic Topography (1)  Mean Sas Surface (1), Nean Dynamic Topography (2)  Mean Sas Surface (1), Nean Dynamic Topography (2)	CS_OFFL_SIR_GOPN_2_20220928T012548_20220928T012804_C001	Tiviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Topography (f)  Mean Sea Surface (f), Mean Dynamic Topography (f)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (f)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (f)  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOPN_2_20220928T013444_20220928T013909_C001	` ` ` `	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography negrit (solution 1) for one or more secords  S OFFL SIR GOPN 2 20220928T04504 20220928T04508 C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or more secords  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or more secords  S OFFL SIR GOPN 2 20220928T045044 20220928T064808 C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or more secords  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (2)  Mean Dynamic Topography (3)  S OFFL SIR GOPN 2 20220928T083158 20220928T065815 C001  Mean Sea Surface (1), Mean Dynamic Topography legiti (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T080431 20220928T083647 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T080431 20220928T08404 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T084529 20220928T08404 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T084529 20220928T08404 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T084529 20220928T108404 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T084529 20220928T108433 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T10450 20220928T10453 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T10450 20220928T10453 C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) in or one or more secords  S OFFL SIR GOPN 2 20220928T12456 20220928T125768 C001  Mean Sea Surface (1), Mean Dynami	CS_OFFL_SIR_GOPN_2_20220928T021619_20220928T022011_C001	` '	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
or more records  S. OFFL SIR_GOPN_2_20220928T045501_20220928T045638_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for an or more records  S. OFFL SIR_GOPN_2_20220928T064344_20220928T06468_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for an or more records  There is an error with the Mean Dynamic Topography (solution 1) for an or more records  There is an error with the Mean Dynamic Topography (solution 1) for an or more records  There is an error with the Mean Dynamic Topography (solution 1) for an or more records  There is an error with the Mean Dynamic Topography (solution 1) for an or more records  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)  S. OFFL SIR_GOPN_2_20220928T084368_20220928T084564_C001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records  S. OFFL SIR_GOPN_2_20220928T084565_20220928T084584_C001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Su	CS_OFFL_SIR_GOPN_2_20220928T030606_20220928T030839_C001	, , ,	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
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intern Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography (solution 1) for or more records  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Sc. OFFL SIR_GOPN_2_20220928T081055_20220928T081408_C001  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Oce Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Sc. OFFL SIR_GOPN_2_20220928T104553_C001  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography	CS_OFFL_SIR_GOPN_2_20220928T045501_20220928T045638_C001	Tiviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1) and the Mean Dynamic Topography (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (SOT), Mean Dynamic Topography (1) (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1) (1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT), Mean Dynamic Topography height (Solution 1) for one or more records  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT), Mean Dynamic Topography height (Solution 1) for one or more records  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography	CS_OFFL_SIR_GOPN_2_20220928T054344_20220928T054408_C001	Tiviean Dynamic Tobodraphy (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records  S_OFFL_SIR_GOPN_2_20220928T080431_20220928T080547_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT). Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT). Total Geocentric Ocean Tide (Solution 1), the Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT). Total Geocentric Ocean Tide (Solution 1), the Total Geocentric Ocean Tide (Solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (Solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (Solution 1) and the Mean Dynamic Topography height (Solution 1), the Total Geocentric Ocean Tide (Solution 1) and the Mean Dynamic Topography height (Solution 1), the Total Geocentric Ocean Tide (Solution 1) and the Mean Dynamic Topography height (Solution 1) for one or more records  S_OFFL_SIR_GOPN_2_20220928T112420_20220928T112708_C001  Mean Sea Surface (1), Mean Dynamic Topography height (Solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (Solution 1) for one or more records  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (Solution 1) and the Mean Dynamic Topogra	CS_OFFL_SIR_GOPN_2_20220928T062509_20220928T062626_C001	Tiviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Topography (1) Topography (1) Topography (1) Topography (1) Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynan Topography (ii) Total Geocentric Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynan Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynan Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynan Topography height (solution 1) for one or more records There is an error with the Mean Dynanic Topography height (solution 1) for one or more records There is an error with the Mean Dynanic Topography height (solution 1) for one or more records There is an error with the Mean Dynanic T	CS_OFFL_SIR_GOPN_2_20220928T063158_20220928T063515_C001	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Mean Dynan Topography (a) There is an error with the MSS height (solution 1) and the Mean Dynan Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynan Topography (a) There is an error with the MSS height (solution 1) and the Mean Dynan Topography (a) There is an error with the MSS height (solution 1) There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1)	CS_OFFL_SIR_GOPN_2_20220928T080431_20220928T080547_C001	` ''	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography height (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records  There is an error with the Mean Dynamic Topography (solution 1) for or more records	CS_OFFL_SIR_GOPN_2_20220928T081055_20220928T081408_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean
Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2: FES) and the Non-Equilibrium Copography (1)  Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records	CS_OFFL_SIR_GOPN_2_20220928T094529_20220928T094804_C001	` ' '	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1) for or or more records  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records  There is an error with the Mean Dynamic Topography (solution 1) for or or more records	CS_OFFL_SIR_GOPN_2_20220928T095000_20220928T095536_C001	· · ·	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records  Mean Dynamic Topography (1)  Mean Dynamic Topography height (solution 1) for one or more records  Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more records  Mean Dynamic Topography (1)  SS_OFFL_SIR_GOPN_2_20220928T130258_20220928T130510_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Topography height (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records  Mean Dynamic Topography (1)  Topography height (solution 1) for one or more records  There is an error with the Mean Dynamic Total Geocentric Ocean Tide for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records  There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T104050_20220928T104553_C001	` '	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography (20220928T121958_20220928T121958_20220928T12506_C001 Topography (1) Topography (1) Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide for one or more records There is an error with the Mean Dynamic Topography (solution 1) for or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or more records  Mean Sea Surface (1), Mean Dynamic Topography 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_20220928T112420_20220928T112708_C001	` ' '	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 2: FES) and the Non-Equilibrium Long Period Ocean Ti	CS_OFFL_SIR_GOPN_2_20220928T121958_20220928T122106_C001	, , ,	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)  Tide (GOT)  Topography (1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records		Geocentric Ocean Tide (FES), Non-	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
Topography (1), Total Geocentric Ocean height (solution 1) and the Total Geocentric Ocean height (solution 1) and the Total Geocentric Ocean height (solution 1: GOT) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T130258_20220928T130510_C001	Tiviean Dynamic Tobography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
There is an error with the Mean Dynamic Topography (solution 1) for or	CS_OFFL_SIR_GOPN_2_20220928T135914_20220928T140508_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
S_OFFL_SIR_GOPN_2_20220928T145159_20220928T145426_C001  Mean Dynamic Topography (1)  or more records	CS_OFFL_SIR_GOPN_2_20220928T145159_20220928T145426_C001	IIVIEAN DYNAMIC TODOGRADNY (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20220928T162135_20220928T162314_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or more records	CS_OFFL_SIR_GOPN_2_20220928T162135_20220928T162314_C001	IIVIEAN DYNAMIC TODOOTADNY (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
S_OFFL_SIR_GOPN_2_20220928T172129_20220928T172530_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or more records	CS_OFFL_SIR_GOPN_2_20220928T172129_20220928T172530_C001	Tiviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T180143_20220928T180512_C001	` ' '	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T194053_20220928T194414_C001	Topography (1)	
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 height (solution 1: GOT) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T203112_20220928T203304_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
S_OFFL_SIR_GOPN_2_20220928T212829_20220928T212938_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography (solution 1) for or more records	CS_OFFL_SIR_GOPN_2_20220928T212829_20220928T212938_C001	Tiviean Dynamic Toboqrabny (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynam Topography (1)  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T221102_20220928T221209_C001	, , ,	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20220928T230530_20220928T230727_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

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CS_OFFL_SIR_GOPN_2_20220928T234908_20220928T235125_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_20220928T004147_20220928T004846_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_20220928T022011_20220928T022524_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_20220928T022558_20220928T022734_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_20220928T035756_20220928T040532_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_20220928T053613_20220928T054344_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_20220928T055257_20220928T055452_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_20220928T071514_20220928T072148_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_20220928T072148_20220928T072311_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_20220928T085327_20220928T090047_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_20220928T090047_20220928T090347_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_20220928T103511_20220928T103938_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_20220928T103938_20220928T104049_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_20220928T111928_20220928T112419_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20220928T121315_20220928T121417_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_20220928T121418_20220928T121540_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_20220928T121540_20220928T121958_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_20220928T135356_20220928T135914_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_20220928T153433_20220928T153929_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_20220928T171311_20220928T172129_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_20220928T185228_20220928T190022_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_20220928T202140_20220928T202455_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_20220928T203304_20220928T204014_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_20220928T232653_20220928T232907_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

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220928T001941_20220928T003559_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220928T140508_20220928T144008_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220928T232907_20220928T234836_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20 Hz)

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

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

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

Ober Affrette Range, 59Th, 59Th of Count Affrette Range, 59Th, 59Th of Count Affrette Range and Beschalter Quality Flags and Septiment Range and Beschalter (Label) of the Count Affrette Range (Label) of the Count Affrette Range and Beschalter (Label) of the Count Affrette Range (Label) of the Count Affrette Range and Beschalter (Label) of the Count Affrette Range and Beschalter (Label) of the Count Affrette Range (Label) of the Count Affrette Range and Beschalter (Label) of the Count Affrette Range (Label) of the Count Affrette Range and Beschalter (Label) of the Count Affrette Range (Label) of the Count Affrette Range and Beschalter (Label) of the Count
and Burkscarter Quality  CS_OFFL_SIR_GOPY_2_22220287003054_22220287003050_CO  CS_OFFL_SIR_GOPY_2_22220287003054_2220287003050_CO  CS_OFFL_SIR_GOPY_2_222202870101038_20220287103050_CO  CS_OFFL_SIR_GOPY_2_222202870101038_20220287103050_CO  CS_OFFL_SIR_GOPY_2_22220287101038_20220287103050_CO  CS_OFFL_SIR_GOPY_2_22220287101038_20220287103050_CO  CS_OFFL_SIR_GOPY_2_22220287100207_2000007_200007_200007_200007_200007_200007_200007_200007_200007_2000007_200007_200007_200007_200007_200007_200007_200007_200007_2000007_200007_200007_200007_200007_200007_200007_2000007_200007_2000007_200007_200007_200007_200007_200007_200007_200007_200007_2000
and Baddoscater Quality, CODS  CS_OFFL_SIR_GOPM_2_202209281011038_202209281012425_Quot  CS_OFFL_SIR_GOPM_2_202209281011038_202209281012425_Quot  CS_OFFL_SIR_GOPM_2_202209281011038_202209281012425_Quot  CS_OFFL_SIR_GOPM_2_20220928101038_202209281012425_Quot  CS_OFFL_SIR_GOPM_2_20220928102004_20220928101325_Quot  CS_OFFL_SIR_GOPM_2_20220928102004_20220928101325_Quot  CS_OFFL_SIR_GOPM_2_20220928102004_20220928101325_Quot  CS_OFFL_SIR_GOPM_2_20220928102004_20220928101325_Quot  CS_OFFL_SIR_GOPM_2_20220928102008_202209281001200_Quot  CS_OFFL_SIR_GOPM_2_20220928101203_202209281001200_Quot  CS_OFFL_SIR_GOPM_2_20220928101203_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101203_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101203_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101203_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101203_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101803_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101803_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101803_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101803_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_20220928101803_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_202209281001803_202209281001800_Quot  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_20220928100010001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810001001  CS_OFFL_SIR_GOPM_2_202209281001803_20220928100010001  CS_OFFL_SIR_GOPM_2_202209281001803_20220928100010001  CS_OFFL_SIR_GOPM_2_202209281001803_20220928100010001  CS_OFFL_SIR_GOPM_2_202209281001803_2022092810000000000000000000000000000000
and Beacastater Quality Flags have been set for one for exceeds Country Flags have been set for control or process. Alternater Range and Backscatter Quality Flags have been set for control or process. Alternater Range and Backscatter Quality Flags have been set for control or process. Alternater Range and Backscatter Quality Flags have been set for control or process. Alternater Range Quality, CCCG Alternater Range and Backscatter Quality Flags and Backscatter Quality Flags have been set for control or process. Alternater Range and Backscatter Quality Flags have been set for control or process. Alternater Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternater Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags have been set for control or process. Alternate Range and Backscatter Quality Flags and be accounter Quality. Alternate Range and Backscatter Quality Flags and be accounter Quality. Alternater Range and Backscatter
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T07024_20220928T02143_C001  CS_OFFL_SIR_GOPM_2_20220928T070237_20220928T030331_C001  CS_OFFL_SIR_GOPM_2_20220928T030237_20220928T030331_C001  CS_OFFL_SIR_GOPM_2_20220928T030237_20220928T030331_C001  CS_OFFL_SIR_GOPM_2_20220928T030237_20220928T030331_C001  CS_OFFL_SIR_GOPM_2_20220928T030233_20220928T0303031_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T031500_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T034505_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T034505_20220928T034505_C001  CS_OFFL_SIR_GOPM_2_20220928T034505_20220928T035001_C001  CS_OFFL_SIR_GOPM_2_20220928T035001_C001  CS_OFFL_SIR_GOPM_2_20220928
and flackscatter Quality, CCOG Allimeter Range and Backscatter Quality Flags have been at flackscatter Quality Flags have been set for one or more records  CS OFFL SIR GOPM 2 20220928T030237 20220928T031210_C001  CS_OFFL_SIR_GOPM_2_20220928T030839_20220928T031210_C001  CS_OFFL_SIR_GOPM_2_20220928T030839_20220928T031210_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031210_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031240_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031250_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031250_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031250_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031250_C001  CS_OFFL_SIR_GOPM_2_20220928T031233 20220928T031250_C001  CS_OFFL_SIR_GOPM_2_20220928T031306_20220928T031250_C001  CS_OFFL_SIR_GOPM_2_20220928T031306_20220928T03125_C001  CS_OFFL_SIR_GOPM_2_20220928T031306_20220928T03125_C001  CS_OFFL_SIR_GOPM_2_20220928T031306_20220928T03125_C001  CS_OFFL_SIR_GOPM_2_20220928T0333 20220928T035301_C001  CS_OFFL_SIR_GOPM_2_20220928T0333 20220928T035301_C001  CS_OFFL_SIR_GOPM_2_20220928T0333 20220928T035301_C001  CS_OFFL_SIR_GOPM_2_20220928T0333 20220928T033301_C001  CS_OFFL_SIR_GOPM_2_20220928T0333 20220928T033301_C001  CS_OFFL_SIR_GOPM_2_20220928T0333 20220928T033301_C001  CS_OFFL_SIR_GOPM_2_20220928T033301_C001  CS_OFFL_SIR_GOPM_2_20220928
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set to rome or more records  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T031210_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T031200_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T031600_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T031600_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T031725_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T031725_C001  CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T04125_C001  CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045135_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T046922_20220928T053301 C001  CS_OFFL_SIR_GOPM_2_20220928T064922_20220928T053301 C001  CS_OFFL_SIR_GOPM_2_20220928T064922_20220928T0649301 C001  CS_OFFL_SIR_GOPM_2_20220928T064922_20220928T063301 C001  CS_OFFL_SIR_GOPM_2_20220928T064922_20220928T064920
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T031600_C001  CS_OFFL_SIR_GOPM_2_20220928T031233_20220928T034725_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T034725_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T034725_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T034725_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T034725_C001  CS_OFFL_SIR_GOPM_2_20220928T0341846_20220928T034253_C001  CS_OFFL_SIR_GOPM_2_20220928T034183_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T034827_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T034533_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T034533_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T034533_20220928T03301_C001  CS_OFFL_SIR_GOPM_2_20220928T034533_20220928T03301_C001  CS_OFFL_SIR_GOPM_2_20220928T034532_20220928T03301_C001  CS_OFFL_SIR_GOPM_2_20220928T034532_20220928T03301_C001  CS_OFFL_SIR_GOPM_2_20220928T034592_20220928T03301_C001  CS_OFFL_SIR_GOPM_2_20220928T034592_20220928T03301_C001  CS_OFFL_SIR_GOPM_2_20220928T034425_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T0345425_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T0345425_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T051816_20220928T051397_C001  CS_OFFL_SIR_GOPM_2_20220928T051816_20220928T061837_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061837_C001  CS_OFFL_SIR_GOPM_2_20220928T061836_2020928T061837_C001  CS_OFFL_SIR_GOPM_2_20220928T061836
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T034725_C001  CS_OFFL_SIR_GOPM_2_20220928T031936_20220928T044253_C001  CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T044253_C001  CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T045133_20220928T04501_C001  CS_OFFL_SIR_GOPM_2_20220928T045133_20220928T04501_C001  CS_OFFL_SIR_GOPM_2_20220928T04502_20220928T04501_C001  CS_OFFL_SIR_GOPM_2_20220928T04502_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T05425_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T05146_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T05146_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T05146_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T05136_C001  CS_OFFL_SIR_GOPM_2_20220928T05136_C001  CS_O
CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T044253 CO01  and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T044646_20220928T044253 CO01  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045125_CO01  CS_OFFL_SIR_GOPM_2_20220928T045633_20220928T045601_CO01  CS_OFFL_SIR_GOPM_2_20220928T045632_20220928T045601_CO01  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T055146_CO01  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_CO01  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_CO01  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_CO01  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T063158_CO01  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_CO01  CS_OFFL_SIR_GOPM_2_20220928T063158_CO01  CS_OFFL_SIR_GOPM_2_20220928T063158_CO01  CS_OFFL_SIR_GOPM_2_20220928T063158_CO01  CS_OFFL_SIR_GOPM_2_20220928T063158_CO01  CS_OFFL_SIR_GOPM_2_20220928T063158_CO01  CS_OFFL_SIR_GOPM_
CS_OFFL_SIR_GOPM_2_20220928T041646_20220928T044253_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T044627_20220928T045125_C001  CS_OFFL_SIR_GOPM_2_20220928T045133_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T045133_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  Altimeter Range and Backscatter Quality, 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_20220928T061816_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_2
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T045133_20220928T045501_C001  CS_OFFL_SIR_GOPM_2_20220928T045133_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  Backscatter Quality  COCG Altimeter Range Quality, 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, 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 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 and The OCOG Altimeter Range and Backscatter Quality Flags and The OCOG Altimeter Range and Backscatter Quality Flags and The OCOG Altimet
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CCGA Altimeter Range Quality, 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_20220928T062627_20220928T063158_C001  CCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range, SSHA, SWH  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range, SSHA, SWH  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20220928T045922_20220928T053301_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Qual
CS_OFFL_SIR_GOPM_2_20220928T054425_20220928T055146_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T063158_C001  CS_OFFL_SIR_GOPM
CS_OFFL_SIR_GOPM_2_20220928T061816_20220928T061937_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  CS_OFFL_SIR_GOPM_2_20220928T062627_20220928T063158_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatt
Backscatter Quality  Scan Altimeter Range, SSHA, SWH  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
Altimeter Range and Backscatter Quality set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T071441_20220928T071514_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T072402_20220928T072617_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T074423_20220928T080017_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T080547_20220928T081055_C001  OCOG Altimeter Range Quality, OCOG 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_20220928T081753_20220928T085326_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T090347_20220928T090518_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T091535_20220928T092012_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20220928T092051_20220928T093830_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags 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 set for one or more records

CS_OFFL_SIR_GOPM_2_20220928T094804_20220928T095000_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_20220928T095735_20220928T101047_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_20220928T101208_20220928T101420_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_20220928T101901_20220928T102612_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_20220928T102614_20220928T103119_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_20220928T104554_20220928T110338_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_20220928T110518_20220928T111928_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_20220928T112708_20220928T112911_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_20220928T113011_20220928T113413_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_20220928T113650_20220928T115048_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_20220928T115329_20220928T115958_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_20220928T120002_20220928T120252_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_20220928T122318_20220928T124219_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_20220928T124803_20220928T125544_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_20220928T125728_20220928T130022_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_20220928T130510_20220928T131316_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_20220928T131633_20220928T133051_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_20220928T140508_20220928T144008_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_20220928T144353_20220928T144558_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_20220928T144631_20220928T145159_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_20220928T145649_20220928T151946_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_20220928T153015_20220928T153242_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_20220928T155139_20220928T161900_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_20220928T162602_20220928T163050_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_20220928T163529_20220928T170114_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_20220928T170616_20220928T171311_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

COURT_BIR_COPM_2_X0200926T18145_0020032T181928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T181928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T181928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T181928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T181928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T19145_0020032T191928_CODI  COURT_BIR_COPM_2_X0200926T1914_X	CS_OFFL_SIR_GOPM_2_20220928T172530_20220928T175701_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
and disconstants Duality. COCS Affect Rings and Bucksocater Country Flags have been affected Rings and Bucksocater Rings. SSM. SVM and Bucksocater Country Flags and Bucksocater Country Flags and Bucksocater Country Flags. SSM. SVM and Bucksocater Country Flags and Bucksocater	CS_OFFL_SIR_GOPM_2_20220928T180512_20220928T181041_C001		
or of Fil. SR, GOPN 2 20220921T194302 20220921T19522 CO11  CS OFFIL SR GOPN 2 20220921T195420 20220921T19575 CO11  CS OFFIL SR GOPN 2 20220921T195420 20220921T19575 CO11  CS OFFIL SR GOPN 2 20220921T195450 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T195450 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T195450 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T195455 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T195455 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T195455 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T295434 20220921T195450 CO11  CS OFFIL SR GOPN 2 20220921T295434 20220921T29553 CO11  CS OFFIL SR GOPN 2 20220921T29535 CO210  CS OFFIL SR GOPN 2 20220921T29535 CO210  CS OFFIL SR GOPN 2 20220921T29535 CO220921T29555 CO11  CS OFFIL SR GOPN 2 20220921T29535 CO220921T29555 CO11  CS OFFIL SR GOPN 2 20220921T29535 C0220921T29555 C011  CS OFFIL SR GOPN 2 20220921T29535 C0220921T2955 C011  CS OFFIL SR GOPN 2 20220921T29535 C0220921T29555 C011  CS OFFIL SR GOPN 2 20220921T29503	CS_OFFL_SIR_GOPM_2_20220928T181443_20220928T181830_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
ord Indicators Quality, COCG and Interior Range and Backscartor Quality Flags have been affected to COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected and the COGG Alternater Range and Backscartor Quality Flags have been affected Quality Flags have been and Backscartor Quality Flag	CS_OFFL_SIR_GOPM_2_20220928T184932_20220928T185228_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Cs. OFFL_SIR_GOPM_2_20220928T195455_20220928T20110B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T295455_20220928T20110B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T204102_20220928T2110D_CO01  Cs. OFFL_SIR_GOPM_2_20220928T21455_20220928T2121416_CO01  Cs. OFFL_SIR_GOPM_2_20220928T21455_20220928T2121416_CO01  Cs. OFFL_SIR_GOPM_2_20220928T21454_20220928T212170B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T21434_20220928T212170B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T21434_20220928T212170B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T213346_20220928T22070B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T212344_20220928T22070B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T2123346_20220928T222070B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T212334_20220928T222070B_CO01  Cs. OFFL_SIR_GOPM_2_20220928T212334_20220928T223356_CO01  Cs. OFFL_SIR_GOPM_2_20220928T212334_20220928T223356_CO01  Cs. OFFL_SIR_GOPM_2_20220928T212334_20220928T223356_CO01  Cs. OFFL_SIR_GOPM_2_20220928T212334_20220928T223356_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223337_20220928T223356_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223337_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223337_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223337_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T223358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T223334_20220928T230358_CO01  Cs. OFFL_SIR_GOPM_2_20220928T2233334_20220928T23035	CS_OFFL_SIR_GOPM_2_20220928T190420_20220928T193715_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality COCG Altimeter Range, SSHA, SWH and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags have been set for nice or more records  CS_OFFL_SIR_GOPM_2_202209281721494_202209281721288_C001  CS_OFFL_SIR_GOPM_2_2022092817213446_202209281721288_C001  CS_OFFL_SIR_GOPM_2_202209281721346_20220928172102_C001  CS_OFFL_SIR_GOPM_2_202209281721346_20220928172102_C001  CS_OFFL_SIR_GOPM_2_202209281721346_202209281722102_C001  CS_OFFL_SIR_GOPM_2_202209281721392_202209281722102_C001  CS_OFFL_SIR_GOPM_2_202209281723937_202209281722102_C001  CS_OFFL_SIR_GOPM_2_202209281723937_20220928172395_C001  CS_OFFL_SIR_GOPM_2_202209281723937_20220928172395_C001  CS_OFFL_SIR_GOPM_2_202209281723937_20220928172395_C001  CS_OFFL_SIR_GOPM_2_202209281723937_20220928172395_C001  CS_OFFL_SIR_GOPM_2_202209281723937_20220928172395_C001  CS_OFFL_SIR_GOPM_2_202209281723937_20220928172395_C001  CS_OFFL_SIR_GOPM_2_202209281725758_202209281723932_C001  CS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281723034_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281723034_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281723034_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281725758_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_202209281723034_2022092817230328_C001  CCS_OFFL_SIR_GOPM_2_20220928172	CS_OFFL_SIR_GOPM_2_20220928T194414_20220928T194928_C001		
and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T211953_20220928T212416_C001  CS_OFFL_SIR_GOPM_2_20220928T211953_20220928T212416_C001  CS_OFFL_SIR_GOPM_2_20220928T211953_20220928T212828_C001  CS_OFFL_SIR_GOPM_2_20220928T213348_20220928T212828_C001  CS_OFFL_SIR_GOPM_2_20220928T213348_20220928T220709_C001  CS_OFFL_SIR_GOPM_2_20220928T213348_20220928T220709_C001  CS_OFFL_SIR_GOPM_2_20220928T213348_20220928T220709_C001  CS_OFFL_SIR_GOPM_2_20220928T213348_20220928T220709_C001  CS_OFFL_SIR_GOPM_2_20220928T2213348_20220928T22000  CS_OFFL_SIR_GOPM_2_20220928T220813_20220928T221002_C001  CS_OFFL_SIR_GOPM_2_20220928T22332_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T22332_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223337_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223337_20220928T223335_C001  CS_OFFL_SIR_GOPM_2_20220928T223337_20220928T223335_C001  CS_OFFL_SIR_GOPM_2_20220928T223335_C001  CS_OFFL_SIR_GOPM_2_20220928T223335_C001  CS_OFFL_SIR_GOPM_2_20220928T223334_20220928T223335_C001  CS_OFFL_SIR_GOPM_2_20220928T223334_20220928T223335_C001  CS_OFFL_SIR_GOPM_2_20220928T233334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20	CS_OFFL_SIR_GOPM_2_20220928T195455_20220928T201108_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS OFFL SIR GOPM 2 20220928T212434 20220928T212828 C001  CS OFFL SIR GOPM 2 20220928T213346 20220928T220708 C001  CS OFFL SIR GOPM 2 20220928T213346 20220928T220708 C001  CS OFFL SIR GOPM 2 20220928T213346 20220928T220708 C001  CS OFFL SIR GOPM 2 20220928T220813 20220928T22102 C001  CS OFFL SIR GOPM 2 20220928T220813 20220928T221102 C001  CS OFFL SIR GOPM 2 20220928T220813 20220928T221102 C001  CS OFFL SIR GOPM 2 20220928T221332 20220928T221355 C001  CS OFFL SIR GOPM 2 20220928T221332 20220928T223355 C001  CS OFFL SIR GOPM 2 20220928T223837 20220928T223355 C001  CS OFFL SIR GOPM 2 20220928T223337 20220928T223355 C001  CS OFFL SIR GOPM 2 20220928T223337 20220928T233315 C001  CS OFFL SIR GOPM 2 20220928T223334 20220928T233335 C001  CS OFFL SIR GOPM 2 20220928T223334 20220928T233335 C001  CS OFFL SIR GOPM 2 20220928T233334 20220928T233338 C001  CS OFFL SIR GOPM 2 20220928T233	CS_OFFL_SIR_GOPM_2_20220928T204102_20220928T211602_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T213346_20220928T220708_C001  CS_OFFL_SIR_GOPM_2_20220928T220813_20220928T221102_C001  CS_OFFL_SIR_GOPM_2_20220928T220813_20220928T221102_C001  CS_OFFL_SIR_GOPM_2_20220928T220813_20220928T221102_C001  CS_OFFL_SIR_GOPM_2_20220928T220813_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T221832_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T221832_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223837_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223837_20220928T224150_C001  CS_OFFL_SIR_GOPM_2_20220928T223837_20220928T224150_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T230315_C001  CS_OFFL_SIR_GOPM_2_20220928T224344_20220928T230328_C001  CS_OFFL_SIR_GOPM_2_20220928T224344_20220928T230328_C001  CS_OFFL_SIR_GOPM_2_20220928T224344_20220928T230328_C001  CS_OFFL_SIR_GOPM_2_20220928T2230322_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CCG_Altimeter Range Quality, OCOG Backscatter Quality Sign have been set for one or more records  CCG_OFFL_SIR_GOPM_2_20220928T230334_20220928T230335_C001  CCG_Altimeter Range Quality, OCOG Backscatter Quality, COCG Backscatter Qualit	CS_OFFL_SIR_GOPM_2_20220928T211953_20220928T212416_C001		
S_OFFL_SIR_GOPM_2_20220928T2213346_20220928T22102_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T221932_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223337_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223337_20220928T224159_C001  CS_OFFL_SIR_GOPM_2_20220928T223337_20220928T224159_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T223334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T223334_20220928T230335_C001  CS_OFFL_SIR_GOPM_2_20220928T2233334_20220928T230338_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230336_C001  CCOCG Altimeter Range Quality, 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 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  The Ocean 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 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230336_C001  CCOG Altimeter Range Quality, OCOG 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 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 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altim	CS_OFFL_SIR_GOPM_2_20220928T212434_20220928T212828_C001		, ,
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220928T221932_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T223357_20220928T223355_C001  CS_OFFL_SIR_GOPM_2_20220928T22337_20220928T224159_C001  CS_OFFL_SIR_GOPM_2_20220928T22337_20220928T224159_C001  CS_OFFL_SIR_GOPM_2_20220928T22337_20220928T224159_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T225758_20220928T230315_C001  CS_OFFL_SIR_GOPM_2_20220928T225758_20220928T230325_C001  CS_OFFL_SIR_GOPM_2_20220928T230322_20220928T230325_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230336_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T23055	CS_OFFL_SIR_GOPM_2_20220928T213346_20220928T220708_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_20220928T229337_20220928T224159_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  CS_OFFL_SIR_GOPM_2_20220928T225758_20220928T230315_C001  CS_OFFL_SIR_GOPM_2_20220928T230322_20220928T230328_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T230344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  COCOA Altimeter Range Quality, OCOG Backs and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T230550_C001  COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220928T220813_20220928T221102_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, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range Altimeter Range and Backscatter Quality Flags have been Altimeter Range Altime	CS_OFFL_SIR_GOPM_2_20220928T221932_20220928T223355_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20220928T223837_20220928T224159_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220928T230322_20220928T230328_C001  Backscatter Quality  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_20220928T230334_20220928T230530_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Ra	CS_OFFL_SIR_GOPM_2_20220928T224314_20220928T225532_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220928T230332_20220928T230530_C001  Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220928T225758_20220928T230315_C001		
CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001  Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220928T230322_20220928T230328_C001		
CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T232653_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220928T230334_20220928T230530_C001		
Altimeter Range and Backscatter Quality set for one or more records	CS_OFFL_SIR_GOPM_2_20220928T231344_20220928T232653_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220928T232907_20220928T234836_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records	CS_OFFL_SIR_GOPM_2_20220928T232907_20220928T234836_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20220928T001502_20220928T001518_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_20220928T001502_20220928T001518_C001		
CS_OFFL_SIR_GOPN_2_20220928T022524_20220928T022558_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	CS_OFFL_SIR_GOPN_2_20220928T022524_20220928T022558_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20220928T054344_20220928T054408_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records	CS_OFFL_SIR_GOPN_2_20220928T054344_20220928T054408_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20220928T144559_20220928T144631_C001  OCOG Altimeter Range Quality, OCOG For one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20220928T144559_20220928T144631_C001		
CS_OFFL_SIR_GOPR_2_20220928T000206_20220928T000306_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records	CS_OFFL_SIR_GOPR_2_20220928T000206_20220928T000306_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220928T001047_20220928T001106_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPR_2_20220928T001047_20220928T001106_C001		

CS_OFFL_SIR_GOPR_2_20220928T072148_20220928T072311_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220928T085327_20220928T090047_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220928T101420_20220928T101901_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:

87

Number of products with errors: 87  Product	Test Failed	Description
rioduct	Test Falled	Description
CS_OFFL_SIR_GOPN_2_20220928T001622_20220928T001909_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_20220928T001909_20220928T001941_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_20220928T003559_20220928T003854_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_20220928T003936_20220928T004147_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_20220928T013444_20220928T013909_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_20220928T021619_20220928T022011_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_20220928T023725_20220928T024029_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_20220928T030606_20220928T030839_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_20220928T031600_20220928T031743_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_20220928T044459_20220928T044507_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_20220928T045501_20220928T045638_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_20220928T053301_20220928T053421_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_20220928T053505_20220928T053613_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_20220928T055919_20220928T060024_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_20220928T060521_20220928T060855_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_20220928T062509_20220928T062626_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_20220928T072311_20220928T072402_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_20220928T095000_20220928T095536_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_20220928T113413_20220928T113550_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_20220928T121958_20220928T122106_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_20220928T122206_20220928T122317_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_20220928T124219_20220928T124803_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_20220928T125544_20220928T125728_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_20220928T134019_20220928T134358_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_20220928T135914_20220928T140508_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_20220928T144205_20220928T144353_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_20220928T151946_20220928T152044_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_20220928T152219_20220928T152342_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_20220928T152921_20220928T153015_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_20220928T162416_20220928T162602_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_20220928T172129_20220928T172530_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_20220928T180143_20220928T180512_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_20220928T190022_20220928T190224_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_20220928T194053_20220928T194414_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_20220928T201108_20220928T201435_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_20220928T203112_20220928T203304_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_20220928T212829_20220928T212938_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_20220928T234908_20220928T235125_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_20220927T235806_20220928T000112_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_20220928T004147_20220928T004846_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_20220928T010359_20220928T011038_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_20220928T022011_20220928T022524_C001	TANO DACKSCANEL UNIANIV EL RIVI UN UN I	The Ocean Altimeter Range, SSHA, SWH 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_20220928T030311_20220928T030606_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_20220928T035756_20220928T040532_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_20220928T044253_20220928T044458_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_20220928T045639_20220928T045922_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_20220928T055257_20220928T055452_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_20220928T061938_20220928T062509_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_20220928T063516_20220928T063927_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_20220928T071514_20220928T072148_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_20220928T072148_20220928T072311_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_20220928T072757_20220928T073045_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_20220928T073302_20220928T073514_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_20220928T080017_20220928T080431_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_20220928T081408_20220928T081753_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_20220928T085327_20220928T090047_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_20220928T090047_20220928T090347_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_20220928T093830_20220928T094529_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_20220928T101047_20220928T101132_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_20220928T103330_20220928T103458_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_20220928T103511_20220928T103938_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_20220928T103511_20220928T103938_C001  CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001  CS_OFFL_SIR_GOPR_2_20220928T113550_20220928T113650_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001  CS_OFFL_SIR_GOPR_2_20220928T113550_20220928T113650_C001  CS_OFFL_SIR_GOPR_2_20220928T115048_20220928T115329_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001  CS_OFFL_SIR_GOPR_2_20220928T113550_20220928T113650_C001  CS_OFFL_SIR_GOPR_2_20220928T115048_20220928T115329_C001  CS_OFFL_SIR_GOPR_2_20220928T121418_20220928T121540_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001  CS_OFFL_SIR_GOPR_2_20220928T113550_20220928T113650_C001  CS_OFFL_SIR_GOPR_2_20220928T115048_20220928T115329_C001  CS_OFFL_SIR_GOPR_2_20220928T121418_20220928T121540_C001  CS_OFFL_SIR_GOPR_2_20220928T121418_20220928T121540_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001  CS_OFFL_SIR_GOPR_2_20220928T113550_20220928T113650_C001  CS_OFFL_SIR_GOPR_2_20220928T115048_20220928T115329_C001  CS_OFFL_SIR_GOPR_2_20220928T121418_20220928T121540_C001  CS_OFFL_SIR_GOPR_2_20220928T121540_20220928T121958_C001  CS_OFFL_SIR_GOPR_2_20220928T121540_20220928T121958_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220928T110338_20220928T110518_C001  CS_OFFL_SIR_GOPR_2_20220928T111928_20220928T112419_C001  CS_OFFL_SIR_GOPR_2_20220928T113550_20220928T113650_C001  CS_OFFL_SIR_GOPR_2_20220928T115048_20220928T115329_C001  CS_OFFL_SIR_GOPR_2_20220928T121418_20220928T121540_C001  CS_OFFL_SIR_GOPR_2_20220928T121540_20220928T121958_C001  CS_OFFL_SIR_GOPR_2_20220928T1333340_20220928T133852_C001  CS_OFFL_SIR_GOPR_2_20220928T135256_20220928T135356_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Backscatter Quality PLRM, OCOG Altimeter Range Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPR_2_20220928T163324_20220928T163529_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_20220928T171311_20220928T172129_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_20220928T175701_20220928T180143_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_20220928T181830_20220928T182135_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_20220928T184525_20220928T184818_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_20220928T185228_20220928T190022_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_20220928T190225_20220928T190338_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_20220928T193715_20220928T194053_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_20220928T195052_20220928T195455_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_20220928T203304_20220928T204014_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_20220928T212938_20220928T213346_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_20220928T221210_20220928T221932_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_20220928T230727_20220928T231344_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_20220928T232653_20220928T232907_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_20220928T235125_20220928T235524_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: 178

# 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: 59

### L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors: 134

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

## **6.1 P2P Product Format Check**

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

Number of products with errors:

# 6.2 P2P Product Header Analysis

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

**Number of products with errors:** 

0

# 6.3 P2P Auxiliary Data File Usage Check

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

0

## **6.4 P2P Auxiliary Correction Error Check**

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220927T235358_20220928T004336_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220220928T004336_20220928T013313_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_220220928T013313_20220928T022250_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_220220928T022250_20220928T031227_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_220220928T031227_20220928T040205_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_220220928T040205_20220928T045142_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_220220928T045142_20220928T054120_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_220220928T054120_20220928T063057_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_220220928T063057_20220928T072034_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_220220928T072034_20220928T081011_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_220220928T081011_20220928T085949_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	(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height
CS_OFFL_SIR_GOP_220220928T085949_20220928T094926_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_220220928T094926_20220928T103904_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_220220928T103904_20220928T112841_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_220220928T112841_20220928T121818_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_220220928T121818_20220928T130755_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_220220928T130755_20220928T135733_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_220220928T135733_20220928T144710_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220220928T144710_20220928T153648_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_220220928T153648_20220928T162625_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_220220928T162625_20220928T171603_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_220220928T171603_20220928T180539_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_220220928T180539_20220928T185517_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_220220928T185517_20220928T194454_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_220220928T194454_20220928T203432_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220220928T203432_20220928T212409_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	(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height

CS_OFFL_SIR_GOP_220220928T212409_20220928T221346_C001	` '	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_220220928T221346_20220928T230323_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_220220928T230323_20220928T235301_C001	Topography (1), Total Geocentric Ocean	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_220220928T235301_20220929T004238_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:** 

3

29

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220927T235358_20220928T004336_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220928T135733_20220928T144710_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220928T230323_20220928T235301_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

#### 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: 30

#### 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: 3

# 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: 27

# 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: