

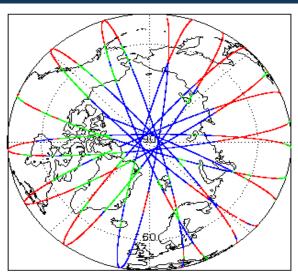
# 1. Overview

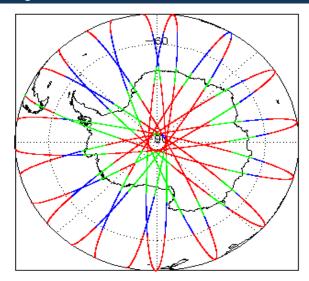
Report Production:	13-Dec-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

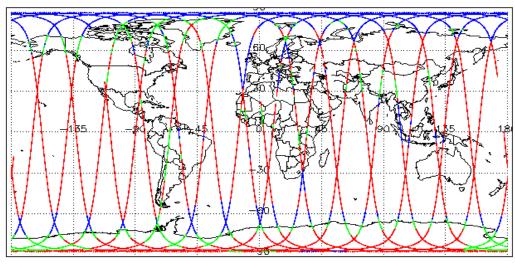
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instru	ment News
13-Nov-2019	SIRAL unavailability on 13-Nov-2019 from 14:24:28 to 16:10:50 due to a planned orbit manoeuvre.
14-Nov-2019	None
15-Nov-2019	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

#### 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:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20191114T040402_20191114T041957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191114T070347_20191114T073134_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191114T120205_20191114T121919_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20191114T134150_20191114T135716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T010440_20191114T010801_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T024602_20191114T024658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T160408_20191114T160520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T210530_20191114T211017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T223304_20191114T223359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T223600_20191114T223644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20191114T224648_20191114T224842_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T002547_20191114T002951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T010801_20191114T011538_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T020402_20191114T021006_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T060436_20191114T060957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T100601_20191114T100924_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T101934_20191114T102351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T111726_20191114T112049_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T142358_20191114T142510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T153545_20191114T153746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T155734_20191114T160156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T191853_20191114T192322_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T223644_20191114T224432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20191114T233502_20191114T233911_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 binary product file (.DBL).

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

## 5.4 L2 Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which 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_GOPM_2_20191114T031350_20191114T031416_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20191114T040402_20191114T041957_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T001522_20191114T001852_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T002422_201911114T002547_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T010440_20191114T010801_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20191114T020220_20191114T020402_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T024602_20191114T024658_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T033118_20191114T033301_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T034008_20191114T034223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T041957_201911114T042259_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T051026_20191114T051215_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T051900_201911114T052349_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T060040_20191114T060436_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T070011_201911114T070204_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T114837_20191114T115003_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T115512_201911114T115819_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20191114T132918_20191114T133208_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T133415_20191114T133939_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T142510_20191114T142935_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T150850_20191114T151125_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T160408_20191114T160520_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T164105_20191114T164234_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T164601_201911114T164939_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T174328_201911114T174553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T174602_201911114T174805_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T182611_201911114T182801_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T183619_201911114T183838_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T192322_20191114T192751_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T210530_20191114T211017_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T214921_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T232507_20191114T232825_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_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_20191114T010801_20191114T011538_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_20191114T024658_20191114T025241_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_20191114T025255_20191114T025409_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20191114T042613_20191114T043303_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_20191114T060436_20191114T060957_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_20191114T074254_201911114T075248_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_20191114T092023_20191114T092322_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_20191114T092322_20191114T092803_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_20191114T093816_201911114T093918_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_20191114T105901_20191114T110606_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_20191114T110606_20191114T110732_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_20191114T123815_201911114T124504_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_20191114T124504_20191114T124742_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_20191114T141757_20191114T141844_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_20191114T141938_20191114T142358_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_20191114T142358_20191114T142510_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_20191114T155734_201911114T160156_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_20191114T160156_20191114T160408_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_20191114T171449_20191114T172100_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_20191114T173716_20191114T174328_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_20191114T191853_201911114T192322_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_20191114T205620_20191114T210530_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_20191114T223644_20191114T224432_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

#### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20Hz)

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20191113T235057_20191114T001218_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS OFFE SIR GOPM 2 201911141002016 201911141002422 C001	5 7	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20191114T002951_201911114T003927_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_20191114T004115_201911114T004729_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_20191114T004907_201911114T005350_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_20191114T011556_20191114T015059_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_20191114T015356_20191114T015907_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_20191114T021006_20191114T024048_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_20191114T025714_20191114T031348_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_20191114T031531_201911114T033046_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_20191114T033301_20191114T033804_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_20191114T034735_20191114T035742_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_20191114T040402_20191114T041957_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_20191114T043753_20191114T045019_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_20191114T045110_20191114T045352_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_20191114T045532_20191114T050910_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_20191114T051215_20191114T051715_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_20191114T052456_20191114T054739_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_20191114T054901_201911114T055821_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_20191114T062650_20191114T064749_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_20191114T065258_20191114T065632_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_20191114T065654_20191114T070011_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_20191114T070347_20191114T073134_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_20191114T080233_20191114T082716_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_20191114T083040_20191114T083545_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_20191114T084354_20191114T091647_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_20191114T093022_20191114T093143_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_20191114T093939_20191114T094938_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_20191114T100230_20191114T100601_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_20191114T101039_20191114T101618_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_20191114T102351_20191114T105606_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_20191114T111118_20191114T111122_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_20191114T112850_20191114T114428_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_20191114T115003_20191114T115512_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_20191114T120205_20191114T121919_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_20191114T123039_20191114T123747_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_20191114T124742_201911114T124935_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_20191114T125950_201911114T130420_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_20191114T130506_201911114T132240_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_20191114T134150_201911114T135716_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_20191114T135720_20191114T141527_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_20191114T143008_20191114T144833_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_20191114T144931_201911114T150303_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_20191114T151125_201911114T151323_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_20191114T151442_201911114T151825_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_20191114T152038_20191114T153545_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_20191114T153746_201911114T154710_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_20191114T160520_201911114T160645_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_20191114T160900_20191114T162632_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_20191114T164234_201911114T164353_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_20191114T164939_20191114T165727_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_20191114T170028_20191114T171449_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_20191114T174942_20191114T175127_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_20191114T175250_20191114T182426_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_20191114T182801_201911114T183014_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_20191114T183028_20191114T183619_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_20191114T184002_20191114T190434_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_20191114T193552_20191114T200302_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_20191114T201011_20191114T201432_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_20191114T201923_20191114T204420_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_20191114T204806_20191114T204950_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_20191114T205410_20191114T205620_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_20191114T211017_20191114T214107_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_20191114T214921_20191114T215459_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_20191114T215839_20191114T220242_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_20191114T221026_20191114T221157_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_20191114T223359_20191114T223536_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_20191114T224842_20191114T232131_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_20191114T232825_20191114T233336_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_20191114T233911_20191114T235522_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T051734_20191114T051740_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_20191114T091647_20191114T091840_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_20191114T112811_20191114T112850_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_20191114T061032_20191114T061134_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_20191114T092828_20191114T093022_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_20191114T123805_20191114T123809_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_20191114T171449_20191114T172100_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_20191114T172100_20191114T172305_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_20191114T174553_20191114T174602_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 (20Hz 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.

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Product	Test Failed	Description
CS OFFE SIR GOPN 2 201911141001522 201911141001852 C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPN_2_20191114T002422_20191114T002547_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set t more records.
CS_OFFL_SIR_GOPN_2_20191114T015213_20191114T015356_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T041957_20191114T042259_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T042359_20191114T042530_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T051900_20191114T052349_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T060040_20191114T060436_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T062113_20191114T062452_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T065026_20191114T065258_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T075407_20191114T075422_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T080128_20191114T080233_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T082907_20191114T083040_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T094938_20191114T095133_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T101819_20191114T101934_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T105615_20191114T105723_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set fmore records.
CS_OFFL_SIR_GOPN_2_20191114T110732_20191114T110750_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T111015_20191114T111118_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T114837_20191114T115003_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T115512_20191114T115819_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has et for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T130420_20191114T130506_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T132918_20191114T133208_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T133415_20191114T133939_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T142510_20191114T142935_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set fmore records.
CS_OFFL_SIR_GOPN_2_20191114T150850_20191114T151125_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T151825_20191114T152006_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20191114T154710_20191114T155020_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T160408_20191114T160520_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.
CS_OFFL_SIR_GOPN_2_20191114T162632_20191114T163234_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.

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CO OFFE, SR QOPN 2 2010114116100 2010114173620 C01  CO OFFE, SR QOPN 2 2010114174000 2010114173620 C01  CO OFFE, SR QOPN 2 201011417400 2010114173620 C01  CO OFFE, SR QOPN 2 201011417400 201011417400 C01  CO OFFE, SR QOPN 2 2010114100 C01  CO OFFE, SR QOPN 2 201011417400 C01  CO OFFE, SR QOPN 2 2010114100 C01  CO OFFE SR Q	CS_OFFL_SIR_GOPN_2_20191114T163305_20191114T163709_C001		
Delt Sirk GGPN 2 2010114110601 2010114110901 0010  GS GPN 3 201011410601 2010114110900 0010  GS GPN 3 201011410601 2010114110000 0010  GS GPN 3 201011410601 2010114110000 0010  GS GPN 3 201011410000 001011410000 001011410000 001011410000 001011410000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 001011410000000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000 0010114100000000	CS_OFFL_SIR_GOPN_2_20191114T164105_20191114T164234_C001		, , ,
Col. DRIEL SIR CORN 2 28191141712403 2019114171400	CS_OFFL_SIR_GOPN_2_20191114T164601_20191114T164939_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. Chell, Silk, GOPH_2_2010114177402_20101141747402_2010114174041_20101_201014147402_201011417474040_201011417474040_201011417474040_201011417474040_201011417474040_201011417474040_201011417	CS_OFFL_SIR_GOPN_2_20191114T165727_20191114T165913_C001		
CB_DPF_SR_GOPN_2_2819114174022_2019114174022_2019114174022_20191417417402_2019114174022_2019114179292_2019_2019141479292_2019114179292_2019_2019141479292_2019114179292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019114179292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_2019141479292_2019_201	CS_OFFL_SIR_GOPN_2_20191114T172403_20191114T172734_C001		
Self-CPFL_SIR_COPN_2_20191141714003_20191141712003_2019114172003_201911	CS_OFFL_SIR_GOPN_2_20191114T174328_20191114T174553_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_2019114118014_2019114118080_001  CS_OFFL_SIR_GOPN_2_2019114118014_2019114118080_001  CS_OFFL_SIR_GOPN_2_2019114118044_2019114118080_001  CS_OFFL_SIR_GOPN_2_2019114119044_2019114118080_001  CS_OFFL_SIR_GOPN_2_20191141190442_20191141190442_2010  CS_OFFL_SIR_GOPN_2_20191141190442_201911411100010_001  CS_OFFL_SIR_GOPN_2_20191141190442_20191141100010_001  CS_OFFL_SIR_GOPN_2_20191141100010_20191141100010_001  CS_OFFL_SIR_GOPN_2_20191141100010_20191141100010_001  CS_OFFL_SIR_GOPN_2_20191141120009_20191141200110_001  CS_OFFL_SIR_GOPN_2_20191141120009_20191141200110_001  CS_OFFL_SIR_GOPN_2_20191141120009_2019114120010_001  CS_OFFL_SIR_GOPN_2_20191141120009_2019114120010_001  CS_OFFL_SIR_GOPN_2_2019114120009_2019114120010_001  CS_OFFL_SIR_GOPN_2_2019114120009_2019114120010_001  CS_OFFL_SIR_GOPN_2_2019114120009_20191141200000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141200000_001  CS_OFFL_SIR_GOPN_2_2019114120000_2019114120000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141210000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141210000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141210000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141210000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141210000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141210000_001  CS_OFFL_SIR_GOPN_2_2019114120000_2019114120000_001  CS_OFFL_SIR_GOPN_2_2019114120000_2019114120000_001  CS_OFFL_SIR_GOPN_2_2019114120000_2019114120000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141200000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141200000_001  CS_OFFL_SIR_GOPN_2_2019114120000_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_20191141200000_001  CS_OFFL_SIR_GOPN_2_201911410000000000000000000000000	CS_OFFL_SIR_GOPN_2_20191114T174602_20191114T174805_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
0000 Beskssater Quality   PLRM	CS_OFFL_SIR_GOPN_2_20191114T175127_20191114T175250_C001		
and Backscatter Causity P.E.M. COCG. Allender Range Gualty P.E.M. CS_OFFL_SIR_GOPN_2_20191141790434_20191141790900_CO01  CS_OFFL_SIR_GOPN_2_20191141790434_20191141790900_CO01  CS_OFFL_SIR_GOPN_2_20191141790434_20191141790900_CO01  CS_OFFL_SIR_GOPN_2_20191141790434_20191141790900_CO01  CS_OFFL_SIR_GOPN_2_20191141790434_20191141790174_CO01  CS_OFFL_SIR_GOPN_2_20191141790434_20191141790174_CO01  CS_OFFL_SIR_GOPN_2_20191141790434_20191141790174_CO01  CS_OFFL_SIR_GOPN_2_20191141790174_CO01  CS_OFFL_SIR_GOPN_2_201911417901914_CO01  CS_OFFL_SIR_GOPN_2_201911417901914_CO01  CS_OFFL_SIR_GOPN_2_201911417901914_CO01  CS_OFFL_SIR_GOPN_2_201911417901914_CO01  CS_OFFL_SIR_GOPN_2_201911417901914_CO01  CS_OFFL_SIR_GOPN_2_201911417901914_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_20191141791191722_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_2019114179119172_CO01  CS_OFFL_SIR_GOPN_2_20191141791492_201911417910191_CO01  CS_OFFL_SIR_GOPN_2_20191141791492_201911417910191_CO01  CS_OFFL_SIR_GOPN_2_20191141791492_201911417924901_CO01  CS_OFFL_SIR_GOPN_2_20191141791492_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_20191141794901_CO01  CS_OFFL_SIR_GOPN_2_20191141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_2019111417949011141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  CS_OFFL_SIR_GOPN_2_201911141794901_CO01  C	CS_OFFL_SIR_GOPN_2_20191114T183014_20191114T183028_C001		, ,
CS_OFFL_SIR_GOPN_2_201911147120595_20191141720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191141720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191114720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191114720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191114720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191114720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191114720724_C001  CS_OFFL_SIR_GOPN_2_20191114720695_20191114720724_C001  CS_OFFL_SIR_GOPN_2_2019111472059_20191114721072_C001  CS_OFFL_SIR_GOPN_2_20191114721650_20191114721072_C001  CS_OFFL_SIR_GOPN_2_20191114721650_20191114721072_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C001911472107_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_20191114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C001  CS_OFFL_SIR_GOPN_2_20191114722600_C0019114722600_C00	CS_OFFL_SIR_GOPN_2_20191114T183619_20191114T183838_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality PLRM. OCOG Barge and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_201911147200839_20191147201722_C001  CS_OFFL_SIR_GOPN_2_201911147201832_201911147201722_C001  CCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality OCOG Backsc	CS_OFFL_SIR_GOPN_2_20191114T190434_20191114T190809_C001		
and Backscatter Quality PLRM.  CS_OFFL_SIR_GOPN_2_20191147200349_20191147201011_C001  CS_OFFL_SIR_GOPN_2_2019114720039_20191147201011_C001  CS_OFFL_SIR_GOPN_2_2019114720132_20191147201012_C001  CS_OFFL_SIR_GOPN_2_201911472030_20191147201010000  CS_OFFL_SIR_GOPN_2_201911472030_20191147214021_C001  CS_OFFL_SIR_GOPN_2_2019114721432_20191147214021_C001  CS_OFFL_SIR_GOPN_2_2019114721432_20191147214021_C001  CS_OFFL_SIR_GOPN_2_2019114721432_20191147214021_C001  CS_OFFL_SIR_GOPN_2_2019114722400_20191147214021_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722400_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722403_2019114722400_C001  CS_OFFL_SIR_GOPN_2_2019114722403_2019114722400_C001  CCOG Altimeter Range Quality PLRM, COCG Backscatter Quality Plank CCOG Backscatter Quality CCOG Backscatt	CS_OFFL_SIR_GOPN_2_20191114T191432_20191114T191442_C001		
CS_OFFL_SIR_GOPN_2_20191114T201432_20191114T201722_C001  CS_OFFL_SIR_GOPN_2_20191114T201432_20191114T201722_C001  CS_OFFL_SIR_GOPN_2_20191114T210530_20191114T211017_C001  CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T214921_C001  CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T214921_C001  CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T214921_C001  CS_OFFL_SIR_GOPN_2_20191114T224400_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224400_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224800_C001  CS_OFFL_SIR_GOPN_2_20191114T224500_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T23883_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T23883_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T238833_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T238833_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T238833_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T238833_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_20191114T238833_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001524_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001524_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001524_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001548_D1191114T001555_C001  CS_OFFL_SIR_GOPR_2_20191114T001548_D1191114T001555_C001  CS_OFFL_SIR_GOPR_2_20191114T001548_D1191114T	CS_OFFL_SIR_GOPN_2_20191114T200545_20191114T200724_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Allmeter Range Quality PLRM. OCG Backscatter Quality PLRM. OCG Allmeter Range and Backscatter Quality Flags have been set for one or more records.  The OCG Range and Backscatter Quality Flags have been set for one or more records.  The OCG Range and Backscatter Quality Flags have been set for one or more records.  The OCG Range and Backscatter Quality Flags have been set for one or more records.  The OCG Range and Backscatter Quality Flags have been set for one or more records.  The OCG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20191114T224500_20191114T224500_C001  OCG Allmeter Range Quality PLRM. OCG Backscatter Quality PLRM. OCG	CS_OFFL_SIR_GOPN_2_20191114T200839_20191114T201011_C001		
OCOG Backscatter Quality  CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T214921_C001  CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T222600_C001  CS_OFFL_SIR_GOPN_2_20191114T222400_20191114T222600_C001  CS_OFFL_SIR_GOPN_2_20191114T222400_20191114T222400_C001  CS_OFFL_SIR_GOPN_2_20191114T222400_20191114T222400_C001  CS_OFFL_SIR_GOPN_2_20191114T222432_20191114T224606_C001  CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224606_C001  CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224606_C001  CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224606_C001  CS_OFFL_SIR_GOPN_2_20191114T223607_20191114T238262_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T235622_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T235622_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T235622_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T0010128_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001018_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T00100128_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T00100128_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T00100128_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T00100128_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T00100128_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T00100128_20191114T00100128_20191114T00100128_20191114T00100128_20191114T00100128_20191114T00100128_2	CS_OFFL_SIR_GOPN_2_20191114T201432_20191114T201722_C001		, v
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM ocog Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCO	CS_OFFL_SIR_GOPN_2_20191114T210530_20191114T211017_C001		
CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224606_C001  CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224642_C001  CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224642_C001  CS_OFFL_SIR_GOPN_2_20191114T232507_20191114T232825_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T035522_20191114T035833_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001524_C001  CS_OFFL_SIR_GOPR_2_20191114T001501_20191114T001552_C001  CS_OFFL_SIR_GOPR_2_20191114T001501_20191114T001552_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T001555_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011555_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011555_C001  CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011555_C001  CS_OFFL_SIR_GOPR_2_20191114T011539_20191114T011555_C001  CS_OFFL_SIR_GOPR_	CS_OFFL_SIR_GOPN_2_20191114T214543_20191114T214921_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224842_C001  CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224842_C001  CS_OFFL_SIR_GOPN_2_20191114T232507_20191114T232825_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T00120547_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T001801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T01801_20191114T011538_C001  CS_OFFL	CS_OFFL_SIR_GOPN_2_20191114T222400_20191114T222600_C001		
CS_OFFL_SIR_GOPN_2_20191114T232825_C001  CS_OFFL_SIR_GOPN_2_20191114T232825_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233825_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T00120191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001801_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T00	CS_OFFL_SIR_GOPN_2_20191114T224432_20191114T224606_C001		
OCOG Backscatter Quality  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001  CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T235502_C001  CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001  CS_OFFL_SIR_GOPN_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001525_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CCC_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CCC_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CCC_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CCC_OFFL_SIR_GOPR_2_20191114T011538_20191114T01153	CS_OFFL_SIR_GOPN_2_20191114T224648_20191114T224842_C001		
CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002951_C001  CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002951_C001  CS_OFFL_SIR_GOPR_2_20191114T001801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114	CS_OFFL_SIR_GOPN_2_20191114T232507_20191114T232825_C001		
CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002551_C001  CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002551_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  OCOG Backscatter Quality  DCean 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 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, 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 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20191114T233336_20191114T233502_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM.  CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002951_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001  and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags a	CS_OFFL_SIR_GOPN_2_20191114T235522_20191114T235833_C001		
CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002951_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  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 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 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20191114T001218_20191114T001522_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20191114T011801_20191114T011538_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_20191114T011538_20191114T011555_C001  OCOG Altimeter Range Quality PLRM,  The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20191114T002547_20191114T002951_C001	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
	CS_OFFL_SIR_GOPR_2_20191114T010801_20191114T011538_C001	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
	CS_OFFL_SIR_GOPR_2_20191114T011538_20191114T011555_C001		

	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_GOPR_2_20191114T020402_20191114T021006_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20191114T024658_20191114T025241_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_20191114T025255_201911114T025409_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_20191114T034223_20191114T034735_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_20191114T042613_201911114T043303_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_20191114T045352_20191114T045400_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_20191114T045400_20191114T045532_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_20191114T050910_20191114T051026_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_20191114T060436_201911114T060957_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_20191114T061032_20191114T061134_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_20191114T062452_20191114T062531_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_20191114T074254_20191114T075248_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_20191114T084051_201911114T084354_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_20191114T091843_20191114T091903_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_20191114T092023_20191114T092322_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_20191114T092322_20191114T092803_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_20191114T092828_20191114T093022_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_20191114T093143_20191114T093259_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_20191114T100602_20191114T100924_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_20191114T101934_20191114T102351_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_20191114T105901_20191114T110606_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_20191114T110606_20191114T110732_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_20191114T111123_201911114T111502_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_20191114T111726_201911114T112049_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_20191114T114428_201911114T114837_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_20191114T115819_201911114T120205_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_20191114T123815_20191114T124504_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_20191114T124935_20191114T125950_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_20191114T132240_20191114T132918_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_20191114T141938_20191114T142358_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_20191114T150303_20191114T150850_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_20191114T152006_20191114T152038_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_20191114T155734_20191114T160156_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_20191114T160156_20191114T160408_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_20191114T172100_20191114T172305_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_20191114T173716_20191114T174328_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_20191114T191442_20191114T191705_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_20191114T191853_20191114T192322_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_20191114T200302_20191114T200545_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_20191114T201722_20191114T201923_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_20191114T205304_20191114T205410_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_20191114T205620_20191114T210530_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_20191114T214107_20191114T214543_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_20191114T222935_20191114T223302_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_20191114T223644_20191114T224432_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_20191114T232131_20191114T232507_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_20191114T233502_20191114T233911_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 & 1Hz PLRM)

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

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

Number of products with errors:

# 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

## L2 Retracking Flags (20Hz, 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:

72

## 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).

mber of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

0

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

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 which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220191113T233018_20191114T001953_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_220191114T001953_20191114T010931_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) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
CS_OFFL_SIR_GOP_2_20191114T010931_20191114T015906_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_220191114T015906_20191114T024845_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_220191114T024845_20191114T033820_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and 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_220191114T033820_20191114T042759_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_220191114T042759_20191114T051733_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_220191114T051733_20191114T060712_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20191114T060712_20191114T065647_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_220191114T065647_20191114T074626_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_220191114T074626_20191114T083601_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_220191114T083601_20191114T092539_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_220191114T092539_20191114T101514_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_220191114T101514_20191114T110453_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_220191114T110453_20191114T115428_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_220191114T115428_20191114T124407_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) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20191114T124407_20191114T133341_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_220191114T133341_20191114T142320_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_220191114T142320_20191114T151255_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_220191114T151255_20191114T160234_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20191114T160234_20191114T165209_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_220191114T165209_20191114T174147_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_220191114T174147_20191114T183122_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_220191114T183122_20191114T192101_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_220191114T192101_20191114T201036_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_220191114T201036_20191114T210015_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_220191114T210015_20191114T214950_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and 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_220191114T214950_20191114T223928_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_220191114T223928_20191114T232903_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_220191114T232903_20191115T001842_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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:

# 6.6 P2P Measurement Quality Flag Check

## P2P Quality Flags (20Hz)

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.

30

30

Number of products with errors:

#### P2P Quality Flags (20Hz 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 & 1Hz 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 (20Hz)

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

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

Number of products with errors:

## P2P Retracking Flags PLRM

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

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