







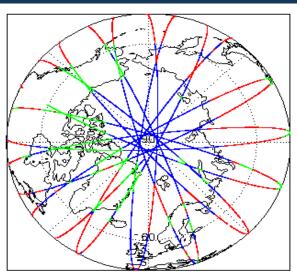
# 1. Overview

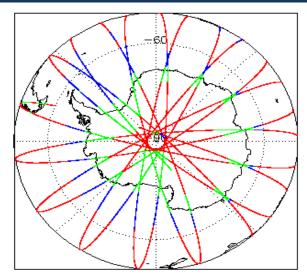
Report Production:	20-Jun-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

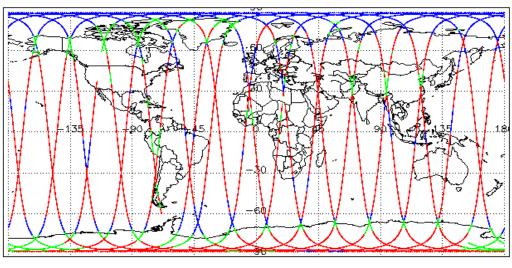
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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

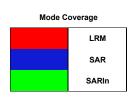
Mission / Instrument News		
11-May-2019	None	
12-May-2019	None	
13-May-2019	Nothing planned	

# 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 peet 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:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

### 4.6 L1B Waveform Group Data Check

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

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

umber of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20190512T123317_20190512T124637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190512T142809_20190512T143230_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190512T182338_20190512T184355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T031904_20190512T032452_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T045357_20190512T045420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T055151_20190512T055315_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T080807_20190512T080853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T095032_20190512T095251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T113048_20190512T113154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T180025_20190512T180457_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T222254_20190512T2222407_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190512T231012_20190512T231353_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T014251_20190512T014434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T031339_20190512T031904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T045254_20190512T045357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T045420_20190512T045920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T062811_20190512T063005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T063128_20190512T064119_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T081211_20190512T082013_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T095251_20190512T100035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T213622_20190512T214028_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190512T234640_20190512T235342_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:

C

## 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.

Number of products with errors:

57

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190512T000234_20190512T000431_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20190512T000612_20190512T002317_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20190512T011320_20190512T012243_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_20190512T182338_20190512T184355_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_20190512T212151_20190512T212243_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_20190512T000041_20190512T000233_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 10 for one or more records
CS_OFFL_SIR_GOPN_2_20190512T000431_20190512T000550_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20190512T004349_20190512T004655_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)
CS_OFFL_SIR_GOPN_2_20190512T013950_20190512T014057_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)
CS_OFFL_SIR_GOPN_2_20190512T022250_20190512T022454_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)
CS_OFFL_SIR_GOPN_2_20190512T031904_20190512T032452_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_GOPN_2_20190512T045920_20190512T050504_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)
CS_OFFL_SIR_GOPN_2_20190512T054141_20190512T054302_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_20190512T072130_20190512T072456_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)
CS_OFFL_SIR_GOPN_2_20190512T080807_20190512T080853_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_20190512T082013_20190512T082240_C001	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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide for one or more prodcuts
CS_OFFL_SIR_GOPN_2_20190512T090035_20190512T090356_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)
CS_OFFL_SIR_GOPN_2_20190512T090913_20190512T091036_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_20190512T095032_20190512T095251_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)
CS_OFFL_SIR_GOPN_2_20190512T104807_20190512T104920_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)
CS_OFFL_SIR_GOPN_2_20190512T113048_20190512T113154_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)
CS_OFFL_SIR_GOPN_2_20190512T122510_20190512T122709_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)
CS_OFFL_SIR_GOPN_2_20190512T130903_20190512T131108_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)
CS_OFFL_SIR_GOPN_2_20190512T144429_20190512T144942_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_20190512T153423_20190512T153730_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_20190512T154414_20190512T154640_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_20190512T162400_20190512T162805_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_20190512T185351_20190512T185516_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_20190512T190315_20190512T190427_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_20190512T194240_20190512T194424_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	#N/A
CS_OFFL_SIR_GOPN_2_20190512T204004_20190512T204307_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)
CS_OFFL_SIR_GOPN_2_20190512T221317_20190512T221625_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)
CS_OFFL_SIR_GOPN_2_20190512T221904_20190512T222251_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)
CS_OFFL_SIR_GOPN_2_20190512T235342_20190512T235616_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)
CS_OFFL_SIR_GOPN_2_20190512T235811_20190513T000019_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20190511T235932_20190512T000040_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 10 for one or more records
CS_OFFL_SIR_GOPR_2_20190512T000550_20190512T000612_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20190512T004149_20190512T004349_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190512T013309_20190512T013537_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_20190512T013537_20190512T013950_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)
CS_OFFL_SIR_GOPR_2_20190512T031339_20190512T031904_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)
CS_OFFL_SIR_GOPR_2_20190512T045420_20190512T045920_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)
CS_OFFL_SIR_GOPR_2_20190512T063128_20190512T064119_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)
CS_OFFL_SIR_GOPR_2_20190512T081211_20190512T082013_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)
CS_OFFL_SIR_GOPR_2_20190512T095251_20190512T100035_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)
CS_OFFL_SIR_GOPR_2_20190512T113154_20190512T113909_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)
CS_OFFL_SIR_GOPR_2_20190512T131108_20190512T131801_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)
CS_OFFL_SIR_GOPR_2_20190512T144943_20190512T145602_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)
CS_OFFL_SIR_GOPR_2_20190512T162805_20190512T162811_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)
CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T163712_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)
CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181239_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)
CS_OFFL_SIR_GOPR_2_20190512T194424_20190512T195100_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)
CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_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)
CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T212959_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)
CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_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)
CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_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)
CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_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)

# 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.

## 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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190512T000612_20190512T002317_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T002508_20190512T003926_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T004656_20190512T004901_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_20190512T004957_20190512T005403_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_20190512T005601_20190512T0111119_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T011320_20190512T012243_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T014933_20190512T020208_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T020740_20190512T021613_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T021639_20190512T022110_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T022454_20190512T023305_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_20190512T023538_20190512T025109_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T033407_20190512T040031_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T040621_20190512T041141_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_20190512T041514_20190512T043817_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T051129_20190512T052249_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality Ocean Altimeter Range Quality, Ocean	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T052826_20190512T053917_C001	SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T054548_20190512T055151_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_20190512T055339_20190512T061457_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T064509_20190512T071812_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T072457_20190512T073024_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_20190512T073246_20190512T073815_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T080912_20190512T081210_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T082401_20190512T083332_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T083545_20190512T085755_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T090356_20190512T090501_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_20190512T090504_20190512T090913_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_20190512T091206_20190512T093052_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T100243_20190512T103611_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T103926_20190512T104358_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_20190512T104417_20190512T104807_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_20190512T105500_20190512T112629_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

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CS_OFFL_SIR_GOPM_2_20190512T114305_20190512T114353_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T114506_20190512T115338_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T115819_20190512T121543_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T121739_20190512T122256_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_20190512T123317_20190512T124637_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T124851_20190512T130127_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T132816_20190512T133548_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T134018_20190512T135430_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T135705_20190512T140207_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_20190512T141040_20190512T141143_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T141703_20190512T142305_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T142809_20190512T143230_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T143353_20190512T143417_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T151223_20190512T153313_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T153730_20190512T154124_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_20190512T154145_20190512T154414_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_20190512T154802_20190512T161440_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T164821_20190512T171322_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T171515_20190512T172037_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_20190512T172044_20190512T172410_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_20190512T172741_20190512T173839_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T174418_20190512T180024_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T182338_20190512T184355_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T184706_20190512T185244_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T185516_20190512T190315_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_20190512T190702_20190512T194026_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T195400_20190512T195451_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T201540_20190512T203148_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T203449_20190512T204003_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_20190512T204637_20190512T210818_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T211104_20190512T212034_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T213153_20190512T213622_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T215108_20190512T215710_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T215857_20190512T220953_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T222606_20190512T225903_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20190512T231508_20190512T232211_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T232225_20190512T234640_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190512T235616_20190512T235811_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_20190512T005403_20190512T005540_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T020208_20190512T020740_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T122510_20190512T122709_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T154139_20190512T154145_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T181240_20190512T181316_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T194240_20190512T194424_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T200316_20190512T200442_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T071812_20190512T072130_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T105331_20190512T105500_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T112629_20190512T112646_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T144224_20190512T144429_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T212959_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T222407_20190512T222605_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH 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.

Number of products with errors: 65

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20190512T000041_20190512T000233_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T000431_20190512T000550_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T005403_20190512T005540_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T014152_20190512T014251_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T022250_20190512T022454_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T023305_20190512T023453_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T041141_20190512T041414_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T045226_20190512T045254_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T045357_20190512T045420_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T055151_20190512T055315_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T090035_20190512T090356_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T090913_20190512T091036_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPN_2_20190512T095032_20190512T095251_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T104807_20190512T104920_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T112647_20190512T112754_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T130903_20190512T131108_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T135517_20190512T135705_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T144429_20190512T144942_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T171353_20190512T171515_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T172410_20190512T172531_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T181240_20190512T181316_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T200316_20190512T200442_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T203323_20190512T203449_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T204004_20190512T204307_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T221317_20190512T221625_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T230401_20190512T230418_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190512T235342_20190512T235616_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T003926_20190512T004136_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T004149_20190512T004349_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T013537_20190512T013950_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T014251_20190512T014434_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T014454_20190512T014727_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T022110_20190512T022249_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T031339_20190512T031904_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T032453_20190512T032715_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T040031_20190512T040223_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T045016_20190512T045226_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T045254_20190512T045357_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190512T063128_20190512T064119_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

COUNT_SIR_COPE_201801717442_201801717546_2000  COUNT_SIR_COPE_2018017175442_2018017175480_0000  COUNT_SIR_COPE_2018017175412_2018017175400_0000  COUNT_SIR_COPE_2018017175400_00000  COUNT_SIR_COPE_2018017175400_0000000000000000000000000000000000	CS_OFFL_SIR_GOPR_2_20190512T071812_20190512T072130_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CB_OFFL_SR_GOFFL_2_016617798511_2016021709032_COT  CB_OFFL_SR_GOFFL_2_016617798551_20160017160382_COT  CB_OFFL_SR_GOFFL_2_016617798551_20160017160382_COT  CB_OFFL_SR_GOFFL_2_016617798551_20160017160382_COT  CB_OFFL_SR_GOFFL_2_016617798551_20160017160382_COT  CB_OFFL_SR_GOFFL_2_016617798551_20160017160382_COT  CB_OFFL_SR_GOFFL_2_016617798551_20160017160382_COT  CB_OFFL_SR_GOFFL_2_016617198792_COT  CB_OFFL_SR_GOFFL_2_01661719892_COT  CB_OFFL_S	CS_OFFL_SIR_GOPR_2_20190512T073142_20190512T073246_C001	Ocean SSHA Quality PLRM, Ocean	
CB_CPFL_SR_COMP_2_0100017100011_0100017100005_C0101  CB_CPFL_SR_COMP_2_20100017100011_0100017100005_C0101  CB_CPFL_SR_COMP_2_20100017100011_0100017100005_C0101  CB_CPFL_SR_COMP_2_20100017100011_0100017100005_C0101  CB_CPFL_SR_COMP_2_20100017100011_0100017100005_C0101  CB_CPFL_SR_COMP_2_20100017100011_0100017100005_C0101  CB_CPFL_SR_COMP_2_201000171100005_C010100017100005_C0101  CB_CPFL_SR_COMP_2_201000171100005_C010100017_C0100005_C0100005_C0005_C000	CS_OFFL_SIR_GOPR_2_20190512T081211_20190512T082013_C001	Ocean SSHA Quality PLRM, Ocean	
CS. OFFL. SR. COPR. 2. 20190121103601, 20190121102010. COOL  CORR. SR. COPR. 2. 2019012110361, 20190121102011. COOL  CORR. SR. COPR. 2. 2019012110364, 20190121102011. COOL  CORR. SR. COPR. 2. 20190121103601, 20190121103611. COOL  CORR. SR. COPR. 2. 20190121103601, 20190121103601. COOL  CORR. SR. COPR. 2. 20190121103601, 20190121110301. COOL  CORR. SR. COPR. 2. 20190121103601. COOL  COPR. SR.	CS_OFFL_SIR_GOPR_2_20190512T094904_20190512T095032_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFF_SIR_GOPR_2_20196512T13514_0196512T105781_CO11  CS_OFF_SIR_GOPR_2_20196512T13514_0196512T105781_CO11  CS_OFF_SIR_GOPR_2_20196512T12276_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12276_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12276_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12276_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12276_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12276_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12600_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12600_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12600_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12600_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12600_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T12600_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10571_CO11  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10500_2019  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10500_2019  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10500_2019  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10500_2019  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10500_2019  CS_OFF_SIR_GOPR_2_20196512T10500_20196512T10500_2019612T10500_	CS_OFFL_SIR_GOPR_2_20190512T095251_20190512T100035_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_20180512713037_201905127130515_COID  CS_OFFL_SIR_GOPR_2_201805127130517_201905127130515_COID  CS_OFFL_SIR_GOPR_2_201805127130517_COID  CS_OFFL_SIR_GOPR_2_201805127130527_COID  CS_OFFL_SIR_GOPR_2_20180	CS_OFFL_SIR_GOPR_2_20190512T103611_20190512T103740_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_COPFL_2/01905/2T19	CS_OFFL_SIR_GOPR_2_20190512T113154_20190512T113909_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20100512T130813_C001  Obean SSHA Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range Quality PERM, Coener SWH Cultility, Ocean Biosociation (Quality) The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Range, SSHA, SWH and Backscoater Quality Piligo, The Ocean Altimeter Ra	CS_OFFL_SIR_GOPR_2_20190512T122709_20190512T123317_C001	Ocean SSHA Quality PLRM, Ocean	
Cos. OFFL_SIR_GOPR_2_20190512T13095_07190512T13095_COS0   SWM Allmorker Rango Coultily PLRN, Coson SWM Coultily Coson Swm Rango Coultily PLRN, Coson SWM Coultily PLR	CS_OFFL_SIR_GOPR_2_20190512T130507_20190512T130613_C001	Ocean SSHA Quality PLRM, Ocean	
Cesan SFIA Quality PLRA Cosean SHA Quality PLRA Cosean SHA Quality Cases Related and the bear set for one or more records.  Ces. OFFL_SIR_GOPR_2_201905127144943_201905127145802_C001  Cesan Altimeter Range_Cuality_PLRA Cosean SHA Quality_PLRA Cose	CS_OFFL_SIR_GOPR_2_20190512T130630_20190512T130851_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T144043_20190512T164802_C001  CS_OFFL_SIR_GOPR_2_20190512T16460_20190512T164802_C001  CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T164802_C001  CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T162712_C001  CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T162712_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T16230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T161230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T18130_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180450_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180450_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T180100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T180100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190100_C001  CS_OFFL_SIR_GOPR_2_20190512T190400000000000000000000000000000000000	CS_OFFL_SIR_GOPR_2_20190512T131108_20190512T131801_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T164640_20190512T164812_C001  CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T163712_C001  CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T163712_C001  CS_OFFL_SIR_GOPR_2_20190512T162815_20190512T16230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181230_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180457_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180457_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T180450_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T1800_C001  CS_OFFL_SIR_GOPR_2_20190512T18000_C001  CS_OFFL_SIR_GOPR_2_20190512T18000_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T180700_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T1900512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T1900512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T1900512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T1900512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T219500_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T219500_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T219500_C001  CS_OFFL_SIR_GOPR_2_20190512T2050512T195100_C001  CS_OFFL_SIR_GO	CS_OFFL_SIR_GOPR_2_20190512T144943_20190512T145602_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T19214_CO01  CS_OFFL_SIR_GOPR_2_20190512T172532_20190512T172741_CO01  CS_OFFL_SIR_GOPR_2_20190512T180467_20190512T181239_CO01  CS_OFFL_SIR_GOPR_2_20190512T180467_20190512T181239_CO01  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181239_CO01  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181239_CO01  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181239_CO01  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181239_CO01  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181406_CO01  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181406_CO01  CS_OFFL_SIR_GOPR_2_20190512T184355_20190512T184706_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T190702_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T190702_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T190702_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194027_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T194020_20190512T195100_CO01  CS_OFFL_SIR_GOPR_2_20190512T19400_20190512T19500_CO01  CS_OFFL_SIR_GOPR_2_20190512T19400_20190512T19500_CO01  CS_OFFL_SIR_GOPR_2_20190512T212043_20190512T212059_CO01  CS_OFFL_SIR_GOPR_2_20190512T212043_20190512T21305_CO01  CO0200 Altimeter Range Cuality FLRM, Ocean SHA Quality FLRM, Ocean SHA Q	CS_OFFL_SIR_GOPR_2_20190512T154640_20190512T154802_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T18232_20190512T181239_C001  CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181239_C001  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181454_C001  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181454_C001  CS_OFFL_SIR_GOPR_2_20190512T18136_20190512T181454_C001  CS_OFFL_SIR_GOPR_2_20190512T18135_20190512T181454_C001  CS_OFFL_SIR_GOPR_2_20190512T18135_20190512T181454_C001  CS_OFFL_SIR_GOPR_2_20190512T180427_20190512T180702_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190702_C001  CS_OFFL_SIR_GOPR_2_20190512T190510_C001  CS_OFFL_SIR_GOPR_2_20190512T212905_C001  CS_OFFL_SIR_GOPR_2_20190512T212905_C0100112T210505_C001  CS_OFFL_SIR_GOPR_2_20190512T212905_C0100112T210505_C001  CS_OFFL_SIR_GOPR_2_20190512T212905_C0100112T210505_C001  CS_OFFL_SIR_GOPR_2_20190512T212905_C0100112T210015_C001  CS_OFFL_SIR_GOPR_2_20190512T212005_C0100112T210015_C001  CS_OFFL_SIR_GOPR_2_20190512T212005_C0100112T210015_C001  CS_OFFL_SIR_GOPR_2_20190512T2100512T210505_C001  CS_OFFL_SIR_GOPR_2_20190512T2100512T210505_C001  CS_OFFL_SIR_GOPR_2_20190512T2100512T210505_C001  CS_OFFL_SIR_GOPR_2_20190512T2100512T20055_C001  CS_OFFL_SIR_GOPR_2_20190512T2100512T20055_C001  CS_OFFL_SIR_GOPR_2_20190512T200512T20055_C001  CS_OFFL_SIR_GOPR_2_20190512T200512T20055_C001  CS_OFFL_SIR_GOPR_2_20190512T200512T20055	CS_OFFL_SIR_GOPR_2_20190512T162811_20190512T163712_C001	Ocean SSHA Quality PLRM, Ocean	
Ocean SSHA Quality PLRM, Ocean SSHA Quality PL	CS_OFFL_SIR_GOPR_2_20190512T172532_20190512T172741_C001	Ocean SSHA Quality PLRM, Ocean	
Cean SHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190512T184355_20190512T184706_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190702_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190702_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190702_C001  CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T190510_C001  CS_OFFL_SIR_GOPR_2_20190512T194424_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T212599_C001  CS_OFFL_SIR_GOPR_2_20190512T212259_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212259_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212059_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T230855_C001  COME Altimeter Range Quality PLRM, Ocean SWH Quality, PLRM, Ocean SWH	CS_OFFL_SIR_GOPR_2_20190512T180457_20190512T181239_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T194355_20190512T190702_C001  Coan Altimeter Range Quality PLRM, Ocean SHA	CS_OFFL_SIR_GOPR_2_20190512T181316_20190512T181454_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190702_C001  CS_OFFL_SIR_GOPR_2_20190512T194424_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T2195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T21959_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T21353_C001  CS_OFFL_SIR_GOPR_2_20190512T2122559_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T233042_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_	CS_OFFL_SIR_GOPR_2_20190512T184355_20190512T184706_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195100_C001  CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T21243_20190512T21959_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T21353_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230455_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  COean Altimeter Range Quality PLRM, Ocean Subtraction of the Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  COEAN Altimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20190512T190427_20190512T190702_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T212959_C001  CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_C001  CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T2300512T23	CS_OFFL_SIR_GOPR_2_20190512T194424_20190512T195100_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T212959_C001  Ocean SSHA Quality PLRM, Ocean SWH Quality PLRM, Ocean SWH Quality PLRM, Ocean SSHA Quali	CS_OFFL_SIR_GOPR_2_20190512T195100_20190512T195400_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T23153_C001  Ocean SSHA Quality PLRM, Ocean SWH Quality PLRM, Ocean SSHA Quali	CS_OFFL_SIR_GOPR_2_20190512T212243_20190512T212959_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001  Ocean SSHA Quality PLRM, Ocean SWH Quality PLRM, Ocean SSHA Qual	CS_OFFL_SIR_GOPR_2_20190512T212959_20190512T213153_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001  Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags  Ocean SSHA Quality Plags  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags  Ocean SSHA Quality Plags  Ocean SSHA Quality Plags  Ocean SSHA Quality Plags  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags  Ocean SSHA Quality Plags  Ocean SSHA Quality Plags  Ocean SSHA Quality Plags  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Plags	CS_OFFL_SIR_GOPR_2_20190512T230418_20190512T230855_C001	Ocean SSHA Quality PLRM, Ocean	
CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001  Ocean SSHA Quality PLRM, Ócean la Company of the User an Allemeter Kanage, SSHA, SWH and Backscatter Quality Flags have been set for one or more proofs.	CS_OFFL_SIR_GOPR_2_20190512T230855_20190512T231012_C001	Ocean SSHA Quality PLRM, Ocean	
	CS_OFFL_SIR_GOPR_2_20190512T234640_20190512T235342_C001	Ocean SSHA Quality PLRM, Ocean	

#### 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:

105

## 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:

66

#### 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:

154

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

.

## 6.2 P2P Product Header Analysis

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

Number of products with errors:

\_

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

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.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and 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:

٠.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190511T235858_20190512T004832_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190512T004832_20190512T013811_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 products
CS_OFFL_SIR_GOP_2_20190512T013811_20190512T022746_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 products
CS_OFFL_SIR_GOP_2_20190512T022746_20190512T031725_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 products
CS_OFFL_SIR_GOP_2_20190512T031725_20190512T040700_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_2_20190512T040700_20190512T045639_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 products
CS_OFFL_SIR_GOP_220190512T045639_20190512T054613_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 products
CS_OFFL_SIR_GOP_2_20190512T054613_20190512T063552_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 products
CS_OFFL_SIR_GOP_2_20190512T063552_20190512T072527_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 products
CS_OFFL_SIR_GOP_2_20190512T072527_20190512T081506_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 products
CS_OFFL_SIR_GOP_220190512T081506_20190512T090440_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), 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 products
CS_OFFL_SIR_GOP_2_20190512T090440_20190512T095419_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 products
CS_OFFL_SIR_GOP_2_20190512T095419_20190512T104354_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 products

CS_OFFL_SIR_GOP_220190512T104354_20190512T113333_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 products
CS_OFFL_SIR_GOP_220190512T113333_20190512T122307_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 products
CS_OFFL_SIR_GOP_220190512T122307_20190512T131246_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 products
CS_OFFL_SIR_GOP_2_20190512T131246_20190512T140221_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 products
CS_OFFL_SIR_GOP_2_20190512T140221_20190512T145200_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 products
CS_OFFL_SIR_GOP_2_20190512T145200_20190512T154135_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 products
CS_OFFL_SIR_GOP_220190512T154135_20190512T163114_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 products
CS_OFFL_SIR_GOP_2_20190512T163114_20190512T172048_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 products
CS_OFFL_SIR_GOP_2_20190512T172048_20190512T181027_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 products
CS_OFFL_SIR_GOP_220190512T181027_20190512T190002_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 products
CS_OFFL_SIR_GOP_220190512T190002_20190512T194941_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), 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 products
CS_OFFL_SIR_GOP_220190512T194941_20190512T203916_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 products
CS_OFFL_SIR_GOP_220190512T203916_20190512T212854_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and all Tidal corrections for one or more products
CS_OFFL_SIR_GOP_220190512T212854_20190512T221829_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 products
CS_OFFL_SIR_GOP_2_20190512T221829_20190512T230808_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 products
CS_OFFL_SIR_GOP_2_20190512T230808_20190512T235742_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more products
CS_OFFL_SIR_GOP_2_20190512T235742_20190513T004721_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Troposheric Correction 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.

Number of products with errors: 29

### 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:

## 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: 2

### 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: 2

### 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.

29

Number of products with errors: