

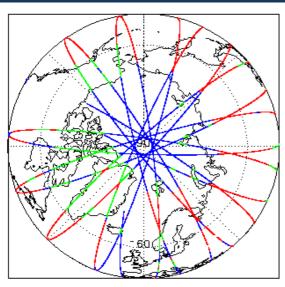
# 1. Overview

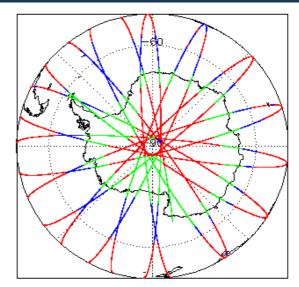
Report Production:	24-Aug-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

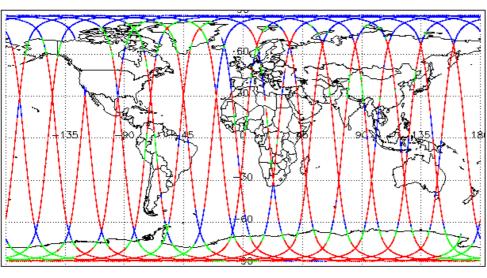
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Ir	strument News
24-Jul-20	2 None
25-Jul-20	2 None
26-Jul-20	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

#### 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release

Number of products with errors:

# 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 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.

#### 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220725T185225_20220725T185909_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20220725T221427_20220725T221440_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220725T012551_20220725T013100_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220725T063102_20220725T063410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220725T114826_20220725T122422_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220725T132811_20220725T133443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220725T161741_20220725T163058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220725T234451_20220725T234919_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T022646_20220725T023109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T033046_20220725T033217_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T040739_20220725T041106_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T041107_20220725T041206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T105337_20220725T105440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T145110_20220725T145252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T155027_20220725T155131_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220725T155209_20220725T155256_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. GOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 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:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Description

CS_OFFL_SIR_GOPM_2_20220725T091532_20220725T091855_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_20220725T155742_20220725T160830_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_20220725T171544_20220725T172236_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPM_2_20220725T173441_20220725T173447_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_GOPM_2_20220725T203908_20220725T204245_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_20220725T001025_20220725T001136_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_20220725T004933_20220725T005159_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220725T005239_20220725T005400_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_20220725T022646_20220725T023109_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220725T023155_20220725T023311_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_20220725T032600_20220725T032835_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_20220725T040739_20220725T041106_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220725T041107_20220725T041206_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_20220725T050512_20220725T050841_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_20220725T054638_20220725T055029_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_20220725T064621_20220725T064802_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_20220725T090324_20220725T090443_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220725T095529_20220725T095653_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_20220725T100219_20220725T100531_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_20220725T105337_20220725T105440_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_20220725T113505_20220725T113619_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_20220725T114118_20220725T114439_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_20220725T131554_20220725T131830_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_20220725T141109_20220725T141136_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_20220725T145259_20220725T145725_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_20220725T155027_20220725T155131_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_20220725T164341_20220725T164529_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_20220725T172941_20220725T173441_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220725T195421_20220725T195626_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220725T213215_20220725T213535_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_20220725T214058_20220725T214216_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_20220725T231110_20220725T231429_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_20220725T231952_20220725T232116_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_20220725T005400_20220725T010004_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_20220725T023311_20220725T023832_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_20220725T032835_20220725T033046_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_20220725T041207_20220725T041916_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_20220725T055029_20220725T055534_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_20220725T072722_20220725T073612_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_20220725T090646_20220725T091532_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_20220725T092339_20220725T092525_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_20220725T104437_20220725T105212_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_20220725T105212_20220725T105337_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_20220725T122423_20220725T123111_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_20220725T123111_20220725T123530_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_20220725T140344_20220725T140936_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_20220725T140936_20220725T141109_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_20220725T143328_20220725T143542_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_20220725T154359_20220725T154531_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_20220725T154601_20220725T154756_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_20220725T154756_20220725T155026_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_20220725T172236_20220725T172341_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_20220725T172341_20220725T172940_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_20220725T190455_20220725T191002_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_20220725T203256_20220725T203350_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220725T185225_20220725T185909_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20220725T221427_20220725T221440_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
		The Ocean Altimeter Range, 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_20220725T004124_20220725T004805_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPM_2_20220725T004805_20220725T004911_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_20220725T010137_20220725T012041_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_20220725T013139_20220725T013717_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_20220725T013942_20220725T014504_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_20220725T015613_20220725T020717_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_20220725T020958_20220725T022646_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_20220725T024829_20220725T025938_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_20220725T030238_20220725T031612_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_20220725T031909_20220725T032404_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_20220725T032441_20220725T032600_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_20220725T033309_20220725T033735_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_20220725T035028_20220725T040304_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_20220725T044058_20220725T045509_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_20220725T045844_20220725T050319_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_20220725T051102_20220725T053634_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_20220725T053906_20220725T054425_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_20220725T061004_20220725T063024_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_20220725T063102_20220725T063410_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_20220725T063845_20220725T064234_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_20220725T064239_20220725T064249_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_20220725T064255_20220725T064621_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_20220725T064948_20220725T071618_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_20220725T073813_20220725T074712_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_20220725T074715_20220725T081358_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_20220725T081659_20220725T082149_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_20220725T082154_20220725T082524_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

DO DIFF. SIR GOM 2 202272119492 202072719900 CO1  DO DIFF. SIR GOM 2 202272119492 202072719900 CO1  DO DIFF. SIR GOM 2 202272119492 202072719000 CO1  DO DIFF. SIR GOM 2 202272119492 202072719000 CO1  DO DIFF. SIR GOM 2 202272119493 202072719000 CO1  DO DIFF. SIR GOM 2 202272119493 202072719000 CO1  DO DIFF. SIR GOM 2 202272119493 202072711900 CO1  DO DIFF. SIR GOM 2 2022721119493 202072711900 CO1  DO DIFF. SIR GOM 2 2022727119494 202072711900 CO1  DO DIFF. SIR GOM 2 202272711900 CO1  DO DIFF. SIR GOM 2 20227271	CS_OFFL_SIR_GOPM_2_20220725T083006_20220725T090324_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
Almore Range and Backscater Quality and the case are more records.  Oct. OFFL_SIR_GOPML2_2022725T00402_2022725T005002_0081  Oct. OFFL_SIR_GOPML2_2022725T005002_2022725T005002_0081  Oct. OFFL_SIR_GOPML2_2022725T005002_2022725T105002_0081  Oct. OFFL_SIR_GOPML2_2022725T105002_2022725T105002_0081  Oct. OFFL_SIR_GOPML2_2022725T105002_20227	CS OFFL SIR GOPM 2 20220725T091532 20220725T091855 C001	Ocean Altimeter Range, SSHA, SWH	
Allere Page 3rd Subdecision Custle   Code		Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH	set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CB_OFFL_SIR_GOPM_2_20020725T108265_20020725T100216_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100216_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100216_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100264_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100264_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100264_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100264_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100264_C001  CS_OFFL_SIR_GOPM_2_20020725T100265_20020725T100264_C001  CS_OFFL_SIR_GOPM_2_20020725T10026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T10026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T10026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T10026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10026_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10005_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10005_C001  CS_OFFL_SIR_GOPM_2_20020725T110026_20020725T10005_C001  CS_OFFL_SIR_GOPM_2_20020725T10005_C001  CS_OFFL_SIR_GOPM_2_20020725T10005	CS_OFFL_SIR_GOPM_2_202207251094825_202207251095002_C001	Altimeter Range and Backscatter Quality	set for one or more records
Backscaller Quality	CS_OFFL_SIR_GOPM_2_20220725T095202_20220725T095237_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Land Backscatter Cuality Coop Alternate Flange and Backscatter Cuality Flange have been self-declared frange and Backscatter Cuality Flange have been self-declared frange and Backscatter Cuality Flange have been self-declared Cuality Coop Alternate Flange and Backscatter Cuality Flange have been self-declared Cuality Coop Alternate Flange and Backscatter Cuality Flange have been self-declared Cuality Coop Alternate Flange and Backscatter Cuality Flange have been self-declared Cuality Coop Alternate Flange and Backscatter Cuality Flange have been self-declared Cuality Flange have been self-declare	CS_OFFL_SIR_GOPM_2_20220725T095653_20220725T100218_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and the OCOD Affirmeter Range and Backscatter Quality Plags have been all assessment Quality Plags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_80220725T105610_0001  CS_OFFL_SIR_GOPM_2_80220725T105610_2001  CS_OFFL_SIR_GOPM_2_80220725T11047_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T111423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T111423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T111423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T111423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T111423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T11423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T11423_20220725T111111_C001  CS_OFFL_SIR_GOPM_2_80220725T11423_20220725T114117_C001  CS_OFFL_SIR_GOPM_2_80220725T11428_80220725T122422_C001  CS_OFFL_SIR_GOPM_2_80220725T11428_80220725T122422_C001  CS_OFFL_SIR_GOPM_2_80220725T11428_80220725T122422_C001  CS_OFFL_SIR_GOPM_2_80220725T11428_80220725T122422_C001  CS_OFFL_SIR_GOPM_2_80220725T11428_80220725T122422_C001  CS_OFFL_SIR_GOPM_2_80220725T12428_1_00220725T130555_C001  CS_OFFL_SIR_GOPM_2_80220725T12428_1_00220725T130555_C001  CS_OFFL_SIR_GOPM_2_80220725T12428_2020725T130555_C001  CS_OFFL_SIR_GOPM_2_80220725T12428_2020725T130555_C001  CS_OFFL_SIR_GOPM_2_80220725T14428_80220725T130555_C001  CS_OFFL_SIR_GOPM_2_80220725T14428_80220725T130555_C001  CS_OFFL_SIR_GOPM_2_80220725T14428_80220725T14522_C001  CS_OFFL_SIR_GOPM_2_80220725T14428_80220725T14522_C001  CS_OFFL_SIR_GOPM_2_80220725T14428_80220725T14522_C001  CS_OFFL_SIR_GOPM_2_80220725T14428_80220725T14522_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14522_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14522_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14528_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14528_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14528_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14528_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14528_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T14528_C001  CS_OFFL_SIR_GOPM_2_80220725T14528_2020725T1452	CS_OFFL_SIR_GOPM_2_20220725T100925_20220725T103024_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
or S. OFFL_SIR_GOPM_2_20220725T110547_20220725T111114_C001  OCG Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCG Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCG Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCG Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCG Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Altmeter Range and Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Altmeter Range Quality, OCGO Altmeter Range and Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Altmeter Range Quality, OCGO Altmeter Range and Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Altmeter Range and Backscatter Quality Flags have been set for one or more records.  OCGO Altmeter Range Quality, OCGO Altmeter Range and Back	CS_OFFL_SIR_GOPM_2_20220725T103310_20220725T104437_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sackstater Quality  CS_OFFL_SIR_GOPM_2_20220725T111423_20220725T131111_C001  CS_OFFL_SIR_GOPM_2_20220725T11442_20220725T13111_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T14117_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T14117_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T122M22_C001  CS_OFFL_SIR_GOPM_2_20220725T14826_20220725T122M22_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T122M22_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130805_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130805_C001  CS_OFFL_SIR_GOPM_2_20220725T13619_20220725T130805_C001  CS_OFFL_SIR_GOPM_2_20220725T136202_20001  CS_OFFL_SIR_GOPM_2_20220725T136202_20001  CS_OFFL_SIR_GOPM_2_20220725T136202_20001  CS_OFFL_SIR_GOPM_2_20220725T136202_20001  CS_OFFL_SIR_GOPM_2_20220725T136202_20001  CS_OFFL_SIR_GOPM_2_20220725T140762_20220725T140364_C001  CS_OFFL_SIR_GOPM_2_20220725T140762_20220725T140364_C001  CS_OFFL_SIR_GOPM_2_20220725T140567_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145056_20220725T145055_C001  CS_OFFL_SIR_GOPM_2_20220725T145056_20220725T145056_C001  CS_OFFL_SIR_GOPM_2_20220725T145056_20220725T145056_C001  CS_OFFL_SIR_GOPM_2_20220725T145056_20220725T145056_C001  CS_OFFL_SIR_	CS_OFFL_SIR_GOPM_2_20220725T105440_20220725T105801_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCA Altimeter Range and Backscatter Cuality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220725T113619_20220725T114117_C001  CS_OFFL_SIR_GOPM_2_20220725T114626_20220725T114117_C001  CS_OFFL_SIR_GOPM_2_20220725T114626_20220725T124242_C001  CS_OFFL_SIR_GOPM_2_20220725T114626_20220725T124242_C001  CS_OFFL_SIR_GOPM_2_20220725T124541_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T124541_20220725T130820_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130820_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130443_C001  CS_OFFL_SIR_GOPM_2_20220725T134811_20220725T130444_C001  CS_OFFL_SIR_GOPM_2_20220725T134811_20220725T130444_C001  CS_OFFL_SIR_GOPM_2_20220725T134812_20220725T130444_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140346_C001  CS_OFFL_SIR_GOPM_2_20220725T14056_20220725T140586_C001  CS_OFFL_SIR_GOPM_2_20220725T14056_20220725T140586_C0	CS_OFFL_SIR_GOPM_2_20220725T110547_20220725T111114_C001	0 ,,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220725T114828_20220725T12422_C001  CS_OFFL_SIR_GOPM_2_20220725T14828_20220725T12422_C001  CS_OFFL_SIR_GOPM_2_20220725T14541_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130855_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T130832_C001  CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T133443_C001  CS_OFFL_SIR_GOPM_2_20220725T134029_20220725T13443_C001  CS_OFFL_SIR_GOPM_2_20220725T134029_20220725T13803_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T13803_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T141529_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141529_20220725T141522_C001  COGA Altimeter Range Quality, COGA Blimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220725T141529_20220725T145025_C001  CCGA Altimeter Range Quality, COGA Blimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter	CS_OFFL_SIR_GOPM_2_20220725T111423_20220725T113111_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Quality Flags have been selected fragrent	CS_OFFL_SIR_GOPM_2_20220725T113619_20220725T114117_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220725T13831_20220725T132023_CO01  CS_OFFL_SIR_GOPM_2_20220725T13831_20220725T13203_CO01  CS_OFFL_SIR_GOPM_2_20220725T13831_20220725T133443_CO01  CS_OFFL_SIR_GOPM_2_20220725T132811_20220725T133443_CO01  CS_OFFL_SIR_GOPM_2_20220725T132811_20220725T133443_CO01  CS_OFFL_SIR_GOPM_2_20220725T134928_20220725T135803_CO01  CS_OFFL_SIR_GOPM_2_20220725T134928_20220725T135803_CO01  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140144_CO01  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_CO01  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_CO01  CS_OFFL_SIR_GOPM_2_20220725T141524_CO01  CS_OFFL_SIR_GOPM_2_20220725T145042_CO01  CS_OFFL_SIR_GOPM_2_20220725T145042_CO01  CS_OFFL_SIR_GOPM_2_20220725T145542_CO01  CS_OFFL_SIR_GOPM_2_20220725T145542_CO01  CS_OFFL_SIR_GOPM_2_20220725T145542_CO01  CS_OFFL_SIR_GOPM_2_20220725T145542_CO01  CS_OFFL_SIR_GOPM_2_20220725T145542_CO020725T145936_CO01  CCOG Altimeter Range Cuality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCOG Altimeter Range and Backscatter Qualit	CS_OFFL_SIR_GOPM_2_20220725T114826_20220725T122422_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220725T132811_20220725T133443_C001  CS_OFFL_SIR_GOPM_2_20220725T132811_20220725T135803_C001  CS_OFFL_SIR_GOPM_2_20220725T134928_20220725T135803_C001  CS_OFFL_SIR_GOPM_2_20220725T134928_20220725T135803_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T141036_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T14522_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T14522_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145036_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145036_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145039_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T1500	CS_OFFL_SIR_GOPM_2_20220725T124541_20220725T130855_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records  CS_OFFL_SIR_GOPM_2_20220725T134928_20220725T135803_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T141524_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145936_C001  CS_OFFL_SIR_GOPM_2_20220725T145542_20220725T145936_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001	CS_OFFL_SIR_GOPM_2_20220725T131831_20220725T132023_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001  CS_OFFL_SIR_GOPM_2_20220725T141036_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145424_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145035_C001  CS_OFFL_SIR_GOPM_2_20220725T145025_2001  CS_OFFL_SIR_GOPM_2_20220725T145025_2001  CS_OFFL_SIR_GOPM_2_20220725T145025_2001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150039_2020725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150032_2022072	CS_OFFL_SIR_GOPM_2_20220725T132811_20220725T133443_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T143542_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T143542_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145049_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150059_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150059_20220725T150010  CCS_OFFL_SIR_GOPM_2_20220725T150059_20220725T150130_C001  CCS_OFFL_SIR_GOPM_2_20220725T1500659_20220725T152130_C001  CCS_OFFL_SIR_GOPM_2_20220725T1500659_20220725T152130_C001  CCS_OFFL_SIR_GOPM_2_20220725T1500659_20220725T152130_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPM_2_20220725T134928_20220725T135803_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001  CS_OFFL_SIR_GOPM_2_20220725T143542_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145936_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145936_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150059_20220725T152130_C001  Backscatter Quality  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  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T1500559_20220725T152130_C001  CCGA Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality  CCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range, SSHA, SWH  CCGA Altimeter Range, SSHA, SWH  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range, SSHA, SWH  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCGA Altimeter Range, SSHA, SWH  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220725T140136_20220725T140344_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_GOPM_2_20220725T143542_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145025_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145936_C001  CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150059_20220725T150130_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T150130_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001  CS_OFFL_SIR_GOPM_2_20220725T150659	CS_OFFL_SIR_GOPM_2_20220725T141229_20220725T141522_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220725T143542_20220725T145025_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20220725T141657_20220725T143328_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001  CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001  Backscatter Quality  for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220725T143542_20220725T145025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer	CS_OFFL_SIR_GOPM_2_20220725T145725_20220725T145936_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220725T150022_20220725T150439_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Attimeter Hange and Backscatter Quality set for one or more records	CS_OFFL_SIR_GOPM_2_20220725T150659_20220725T152130_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220725T152342_20220725T153312_C001  Ocean Altimeter Range, 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_20220725T152342_20220725T153312_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220725T155742_20220725T160830_C001  Ocean Altimeter Range, 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_20220725T155742_20220725T160830_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20220725T160836_20220725T161243_C001  Ocean Altimeter Range, 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_20220725T160836_20220725T161243_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20220725T161741_20220725T163058_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_20220725T163518_20220725T164341_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_20220725T164656_20220725T170311_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_20220725T170344_20220725T170834_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_20220725T174449_20220725T174755_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_20220725T174822_20220725T181046_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_20220725T181704_20220725T182201_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_20220725T182728_20220725T185038_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_20220725T192332_20220725T194904_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_20220725T195626_20220725T200226_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_20220725T200517_20220725T203233_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_20220725T203908_20220725T204245_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_20220725T205521_20220725T212801_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_20220725T213535_20220725T214058_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_20220725T214433_20220725T214853_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_20220725T221858_20220725T222234_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_20220725T223424_20220725T224338_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_20220725T224623_20220725T230737_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_20220725T231544_20220725T231952_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_20220725T232507_20220725T233458_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_20220725T233645_20220725T234243_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_20220725T000006_20220725T000417_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_20220725T005239_20220725T005400_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_20220725T064249_20220725T064255_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_20220725T064621_20220725T064802_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_20220725T171022_20220725T171409_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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

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

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

Number of products with errors:

Product Test Failed Description Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG CS\_OFFL\_SIR\_GOPN\_2\_20220725T000006\_20220725T000417\_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records PLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_GOPN\_2\_20220725T013815\_20220725T013941\_C001 Altimeter Range and Backscatter Quality set for one or more records PI RM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T014740 20220725T014925 C001 more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS\_OFFL\_SIR\_GOPN\_2\_20220725T022646\_20220725T023109\_C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality CS OFFL SIR GOPN 2 20220725T023832 20220725T023902 C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T024615 20220725T024828 C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG CS\_OFFL\_SIR\_GOPN\_2\_20220725T031725\_20220725T031909\_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records PI RM OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T032435 20220725T032441 C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG CS OFFL SIR GOPN 2 20220725T032600 20220725T032835 C001 Altimeter Range and Backscatter Quality set for one or more records PLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags. and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_GOPN\_2\_20220725T033046\_20220725T033217\_C001 Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS\_OFFL\_SIR\_GOPN\_2\_20220725T034443\_20220725T035008\_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS\_OFFL\_SIR\_GOPN\_2\_20220725T035021\_20220725T035028\_C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS\_OFFL\_SIR\_GOPN\_2\_20220725T040305\_20220725T040428\_C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR GOPN 2 20220725T040739 20220725T041106 C001 Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T041107 20220725T041206 C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T043048 20220725T043128 C001 OCOG Backscatter Quality more records OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T054425 20220725T054549 C001 more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T054638 20220725T055029 C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T060522 20220725T060704 C001 OCOG Backscatter Quality nore records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T060755 20220725T061004 C001 OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS\_OFFL\_SIR\_GOPN\_2\_20220725T063619\_20220725T063845\_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or CS OFFL SIR GOPN 2 20220725T082546 20220725T082702 C001 OCOG Backscatter Quality

CS_OFFL_SIR_GOPN_2_20220725T100219_20220725T100531_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T105802_20220725T105950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T111114_20220725T111423_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_20220725T114118_20220725T114439_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T123651_20220725T123724_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_20220725T132023_20220725T132650_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T145110_20220725T145252_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T145259_20220725T145725_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T155027_20220725T155131_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_20220725T155549_20220725T155653_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T161243_20220725T161741_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_20220725T164341_20220725T164529_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T171022_20220725T171409_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_20220725T172941_20220725T173441_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_20220725T181259_20220725T181418_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_20220725T181617_20220725T181704_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_20220725T182201_20220725T182429_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T185039_20220725T185225_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_20220725T205204_20220725T205521_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_20220725T213215_20220725T213535_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T214058_20220725T214216_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220725T220119_20220725T220141_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_20220725T220312_20220725T220456_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_20220725T221440_20220725T221454_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_20220725T221454_20220725T221510_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_20220725T231110_20220725T231429_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPN_2_20220725T234243_20220725T234451_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_20220725T004911_20220725T004932_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_20220725T012156_20220725T012301_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_20220725T014925_20220725T015613_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_20220725T020840_20220725T020958_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_20220725T023902_20220725T024034_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_20220725T031612_20220725T031725_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_20220725T032835_20220725T033046_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_20220725T033217_20220725T033308_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_20220725T041207_20220725T041916_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_20220725T043245_20220725T043317_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_20220725T043320_20220725T043710_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_20220725T043714_20220725T044058_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_20220725T053634_20220725T053905_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_20220725T055614_20220725T055833_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_20220725T071748_20220725T071812_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_20220725T081358_20220725T081535_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_20220725T082702_20220725T083006_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_20220725T092339_20220725T092525_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_20220725T095237_20220725T095529_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_20220725T100531_20220725T100925_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_20220725T104437_20220725T105212_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_20220725T105212_20220725T105337_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_20220725T105950_20220725T110131_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_20220725T113111_20220725T113504_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_20220725T114439_20220725T114825_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_20220725T122423_20220725T123111_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_20220725T130856_20220725T131554_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_20220725T134446_20220725T134928_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_20220725T140344_20220725T140936_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_20220725T152130_20220725T152312_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_20220725T154359_20220725T154531_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_20220725T163058_20220725T163325_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_20220725T173448_20220725T173742_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_20220725T174307_20220725T174448_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_20220725T181046_20220725T181259_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_20220725T194904_20220725T195225_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_20220725T203832_20220725T203908_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_20220725T212802_20220725T213215_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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

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

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

Number of products with errors:

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

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

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

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

Number of products with errors: 15

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

## 6.2 P2P Product Header Analysis

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

Number of products with errors:

# 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

# 6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220725T000555_20220725T005533_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220220725T005533_20220725T014509_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_20220725T014509_20220725T023448_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220220725T023448_20220725T032424_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_20220725T032424_20220725T041402_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220725T041402_20220725T050339_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_20220725T050339_20220725T055317_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_20220725T055317_20220725T064254_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_20220725T064254_20220725T073232_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_20220725T073232_20220725T082208_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_20220725T082208_20220725T091147_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220725T091147_20220725T100123_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_20220725T100123_20220725T105101_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_20220725T105101_20220725T114038_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_20220725T114038_20220725T123016_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_20220725T123016_20220725T131952_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_20220725T131952_20220725T140930_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_20220725T140930_20220725T145907_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_220220725T145907_20220725T154845_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_20220725T154845_20220725T163822_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_20220725T163822_20220725T172800_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220725T172800_20220725T181737_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220725T181737_20220725T190715_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_20220725T190715_20220725T195651_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220725T195651_20220725T204629_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_20220725T204629_20220725T213606_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_20220725T213606_20220725T222544_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

Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_GOP\_2\_\_20220725T222544\_20220725T231521\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_GOP\_2\_20220725T231521\_20220726T000459\_C001 Mean Dynamic Topography (1) 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220725T181737_20220725T190715_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220220725T213606_20220725T222544_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

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

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

Number of products with errors:

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

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

Number of products with errors:

#### 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20 Hz)

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

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

#### P2P Retracking Flags PLRM

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

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

Number of products with errors:

#### 7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	149	149	3	146	0
SIR_GOPR1B	123	123	1	122	0
SIR_GOPN1B	103	103	1	102	0
SIR_GOPM_2	149	149	89	60	0
SIR_GOPR_2	123	123	24	98	1
SIR_GOPN_2	103	103	37	66	0
SIR GOP P2P	29	29	0	28	1

#### 7.1 QCC Errors

Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR GOP 2	1	1	1	1							

Fest Description Key:						
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				

#### 7.2 QCC Warnings

Number of QCC reports with warnings

2407

NODE		883/16	SERVICE		MANAGE PARTIES	
Total	numb	oer of	f occurrences	of ea	ch warn	ing

	Total name of obtaining							
ſ	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
ſ	SIR_GOPM1B	146	0	0	0	0	0	0
	SIR_GOPM_2	0	0	43	49	1	41	0
	SIR_GOPN1B	100	0	0	0	0	0	0
	SIR_GOPN_2	0	0	10	34	7	23	25
	SIR_GOPR1B	120	0	0	0	0	0	0
	SIR_GOPR_2	0	1	40	55	0	41	34

	Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF
Ī	SIR GOPM1B	0	0	0	0	0	0	0

SIR_GOPM_2	33	5	0	39	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	19	34	0	0	0	31	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	24	38	4	0	54	0	65

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	31	0	0	3	30	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	37	0	0	34	18	41	49
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	0	51	0	2	72	59

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	4	38	0	3	0	0	0
SIR_GOPN1B	0	0	0	0	0	45	1
SIR_GOPN_2	27	25	31	12	4	0	0
SIR_GOPR1B	0	0	0	0	0	122	5
SIR_GOPR_2	6	41	58	2	1	0	0

	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
ſ	SIR GOP 2	16	29	29	9	29	17	29

Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	29	3	17	28	24	18	29

	Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•
Į.								
	SIR GOP 2	19	21	29	20	15	29	

MVIOEPFDNCDF MissingValueIntOceanExcludingPolar/PIZNetCDF MVIOEPCCF MissingValueIntOceanExcludingPolar/PIZNetCDF MVIOEPCCF MissingValueIntOceanExcludingPolar/PIZNetCDF  RBSZOPOEPFDNCDF RBSZOPOEPNCDF RBSZOPOEP	Test Description Key:							
ICHHMOOR IndexOfTHcin20HzMappingOuIOfRange The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - MVIOEPFDNCDF MssingValueInfOceanExcludingPolarFD2NetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degree MVIOEPTONCDF MssingValueInfOceanExcludingPolarPD2NetCDF The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degree RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDNCDF RBSZOPOEPFDLRM ROCF RBSZOPOEPFDLRM RAngeBackscatterGigmaZeroOPOceanExcludingPolarFD2NetCDF RBSZOPOEPFDLRM RAngeBackscatterGigmaZeroOPOceanExcludingPolarFD2NetCDF RBSZOPOEPFDLRM RangeBackscatterGigmaZeroOPOceanExcludingPolarPD2PLRMNetCDF RBSZOPOEPFDLRM RangeBackscatterGigmaZeroOPOceanExcludingPolarNetCDF RBSZOPOEPFDLRM RangeBackscatterGigmaZeroOPOceanExcludingPolarOPFDZHMNetCDF RBSZOPOEPFDLRM RangeBackscatterGigmaZeroOPOceanExcludingPolarOPFDZHRMNetCDF RBSZOPOEPFDLRM RangeBackscatterGigmaZeroOPOceanExcludingPolarOPFDZHRMNetCDF RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPFDZHRMNetCDF RBSZOPOEPFDSINNCDF RangePackinessExcludingPo	bbreviation	Test name	Details					
MVIOEPFDNCDF MissingValueIntOceanExcludingPolarFD2NetCDF MVIOEPTCDF MissingValueIntOceanExcludingPolarFD2NetCDF MVIOEPTCDF MissingValueIntOceanExcludingPolarFD2NetCDF MissingValueIntOceanExcludingPolarFD2NetCDF RBSZOPOEPFDNCDF RBSZOPOEPNCDF RBSZOPOEPFDNCDF RBSZOPOEPNCDF RSSHAOFNCDF RBSZOPOEPNCDF RSSHAOFNC	CSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
MVIOEPROCDF  MSingValueIntOceanExcludingPolarNetCDF  MSingValueIntOceanExcludingPolarNetCDF  MSingValueIntOceanNetCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDLRM  NCDF  RangeBackscatterSigmaZeroOPCoeanExcludingPolarPEZPLRMNetCDF  RBSZOPOEPFDLRM  NCDF  RangeBackscatterSigmaZeroOPCoeanExcludingPolarNetCDF  RBSZOPOEPFDLRM  NCDF  RangeBackscatterSigmaZeroOPCoeanExcludingPolarNetCDF  RBSZOPOEPFDLRM  RBSGORD  RBSGORD  RBSGORD  RBSGORD  RBSGORD  RBSGORD  RBSGORD  RBSGORD  RBSGORD  RBSG	OHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIONCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPFDNCDF  RBSZOPOEPNCDF  RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF  RBSZOPOEPNCDF  RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF  RBSZOPOEPNCDF  RBRGELORGER  RangeBackscatterSigmaZeroOPOceanExcludingPolarPD2PLRMNetCDF  RBRGELORGER  RBRGER  RBR	IVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
RBSZOPOEPFDNCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPFDLRM NCDF RBSZOPOEPNCDF RBRGE-CARRO	/IVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
RBSZOPOEPFDRM RBSZOPOEPFDRM RBSZOPOEPFDRM RBSZOPOEPFDRDF RBSHAOFDRDF RBSHAOFDRDF RBSSORONDF RBSSORONDF RBSSHAOFDRDF RBS	IVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
NCDF RBSZOPOEPNCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF RBSZOPOEPNCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF RhPTONCDF RangeLongPeriodTideOceanNetCDF RhPEPOPTONCDF RangeLongPeriodTideOceanNetCDF RhPEPOPTDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF RhPEPOPTDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF RhPEPOPTDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF RhPEPOPTDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF RhPEPOPTDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF RhPEPOPTDLRMNCDF Rheight should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwaen 70 degrees and 70 degrees and 70 degrees RangePeakinessExcludingPolarOPFD2PLRMSNNetCDF Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees and 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwaen 70 degrees Rheight should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwaen 70 degrees R	RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RLPTONCDF RANGELPOCEARINGLOF RANGELPOCEARINGLOF REPEOPFDLRMNCDF RANGELPOCEARINGLOF RANGEL		RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDLRMSAR RCDF RPEPOPFDLRMSAR RCDF RPEPOPFDLRMSIN CDF RAngePeakinessExcludingPolarOPFD2LRMSINNetCDF RDEPOPFDLRMSIN CDF RAngePeakinessExcludingPolarOPFD2LRMSINNetCDF RDEPOPFDLRMSIN CDF RAngePeakinessExcludingPolarOPFD2LRMSINNetCDF RDEPOPFDSARNCDF RAngePeakinessExcludingPolarOPFD2PLRMSINNetCDF RDEPOPFDSARNCDF RAngePeakinessExcludingPolarOPFD2SINNetCDF RDEPOPFDSINNCDF RPEPOPFDSINNCDF RAngePeakinessExcludingPolarOPFD2SINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFD2SINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFD2SINNetCDF RDEPOPSARNCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFD2SINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPFSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSARNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSINNetCDF RDEPOPSARNCDF RAngePeakinessExcludingPolarOPSINNetCDF RDEPOPSARNCDF RAngeSeaSurfaceHeightAnomalyOceanFD3NetCDF RDEPOPSARNCDF RAngeSeaSurfaceHeightAnomalyOceanFD3NetCDF RSSHAOFDNCDF RAngeSeaSurfaceHeightAnomalyOceanFD3NetCDF RSSHAOFDDLRMNCDF RAngeSeaSurfaceHeightAnomalyOceanFD3NetCDF RAngeSeaSurfaceH	BSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMSARNetCDF RPEPOPFDPLRMSARNCDF RPEPOPFDPLRMSARNCDF RPEPOPFDPLRMSARNCDF RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF RPEPOPFDSARNCDF ReperopfDplrmsinny ReperopfDsarncdf	LPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean					
RPEPOPFDLRMSAR RANGE RANGE REPOPFDLRMSAR RANGE REPOPFDLAMSAR RANGE REPOPFD RANGE	NELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean					
NCDF RPEPOPFDLRMSINN CDF RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF RPEPOPFDSARNCDF RangePeakinessExcludingPolarOPFD2SARNetCDF RangePeakinessExcludingPolarOPFD2SARNetCDF RangePeakinessExcludingPolarOPFD2SARNetCDF Reperopf Sarncd RangePeakinessExcludingPolarOPFD2SINNetCDF Reperopf Sarncd RangePeakinessExcludingPolarOPFD2NetCDF Reperopf Sarncd RangePeakinessExcludingPolarD2NetCDF Reperopf Sarncd Re	RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
CDF RPEPOPFDSARNCDF RangePeakinessExcludingPolarOPFD2SARNetCDF RangePeakinessExcludingPolarOPFD2SARNetCDF RangePeakinessExcludingPolarOPFD2SINNetCDF RangePeakinessExcludingPolarOPFD2SINNetCDF RangePeakinessExcludingPolarOPFD2SINNetCDF Respons RangePeakinessExcludingPolarOPFD2SINNetCDF Respons RangePeakinessExcludingPolarOPFD2SINNetCDF Respons RangePeakinessExcludingPolarOPFD2SINNetCDF Respons RangePeakinessExcludingPolarOPSARNetCDF Respons RangePeakinessExcludingPolarOPSARNetCDF Respons RangePeakinessExcludingPolarOPSARNetCDF Respons RangePeakinessExcludingPolarOPSARNetCDF Respons RangePeakinessExcludingPolarOPSINNetCDF Respons RangePeakinessExcludingPolarOPSINNetCDF Respons RangePeakinessExcludingPolarOPSINNetCDF Respons RangePeakinessExcludingPolarOPSINNetCDF Respons RangePeakinessExcludingPolarOPSINNetCDF Respons RangeSeaStateBiasCorrectionOceanNetCDF Respons RangeSeaStateBiasCorrectionOceanNetCDF Respons RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF Respons RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF Respons RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF Respons RangeSeaSurfaceHeightAnomalyOcea	-	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPFD2SINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes betwand 70 degrees The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes betwand 70 degrees RPEPOPSARNCDF RangePeakinessExcludingPolarOPSARNetCDF RangePeakinessExcludingPolarOPSARNetCDF Reperopsinncdf RangePeakinessExcludingPolarOPSARNetCDF Reperopsinncdf RangePeakinessExcludingPolarOPSINNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes betwand 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes betwand 70 degrees RSSBCONCDF RangeSeaStateBiasCorrectionOceanNetCDF The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean for latitudes betwand 70 degrees  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean for latitudes betwand 70 degrees  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean for latitudes between for		RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLISHINGDF RangePeakinessExcludingPolarOPLRMNetCDF Reperoplement Re	RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF RangePeakinessExcludingPolarOPSARNetCDF RPEPOPSINNCDF RangePeakinessExcludingPolarOPSARNetCDF RPEPOPSINNCDF RangePeakinessExcludingPolarOPSINNetCDF Responsible between 0 and 15000 (or missing) for surface type = ocean for latitudes between 0 and 70 degrees  The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 0 and 70 degrees  RSSBCONCDF RangeSeaStateBiasCorrectionOceanNetCDF The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean	RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF RangePeakinessExcludingPolarOPSINNetCDF RangePeakinessExcludingPolarOPSINNetCDF RangeSeaStateBiasCorrectionOceanNetCDF RSSBCONCDF RangeSeaStateBiasCorrectionOceanNetCDF RSSHAOFDNCDF RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSWHOEPFDNCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	RPEPOPLRMNCDF I	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF RangeSeaStateBiasCorrectionOceanNetCDF RSSHAOFDNCDF RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF RSSHAOFDPLRMNCD RSSHAOFDPLRMNCD RSSHAOFDPLRMNCD RSSHAOFDPLRMNCD RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RangeSeaSurfac	RPEPOPSARNODF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSHAOFDNCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean and 70 degrees	RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSHAOFDRAMCDF RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface to ocean	RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
F HangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF ocean  RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface ty ocean  RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean  The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  and a surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  and a surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anomaly should be between 0mm and 15000mm (or missing) for surface type = ocean  and a surface height anoma	RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF accean  The significant wave height should be between 0mm and 15000mm (or missing) for surface type = oc latitudes between -70 and 70 degrees	ISSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
HSWHOEPFDINCDF HangeSignificantwaveHeightOceanExcludingPolarFDZNetCDF latitudes between -70 and 70 degrees	RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
			The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMNC DF RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF The significant wave height should be between 0mm and 15000mm (or missing) for surface type = oc latitudes between -70 and 70 degrees		RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPNCDF RangeSignificantWaveHeightOceanExcludingPolarNetCDF The significant wave height should be between 0mm and 15000mm (or missing) for surface type = oc latitudes between -70 and 70 degrees	SWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	OOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample					
SCSTODHRNCDF SequenceCounterStepTODHRNetCDF The sequence counter should be modulo 4 higher with regard to the previous sequence counter	CSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter					

# 7.3 Missing QCC Reports