

1. Overview

Report Production:	10-Feb-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

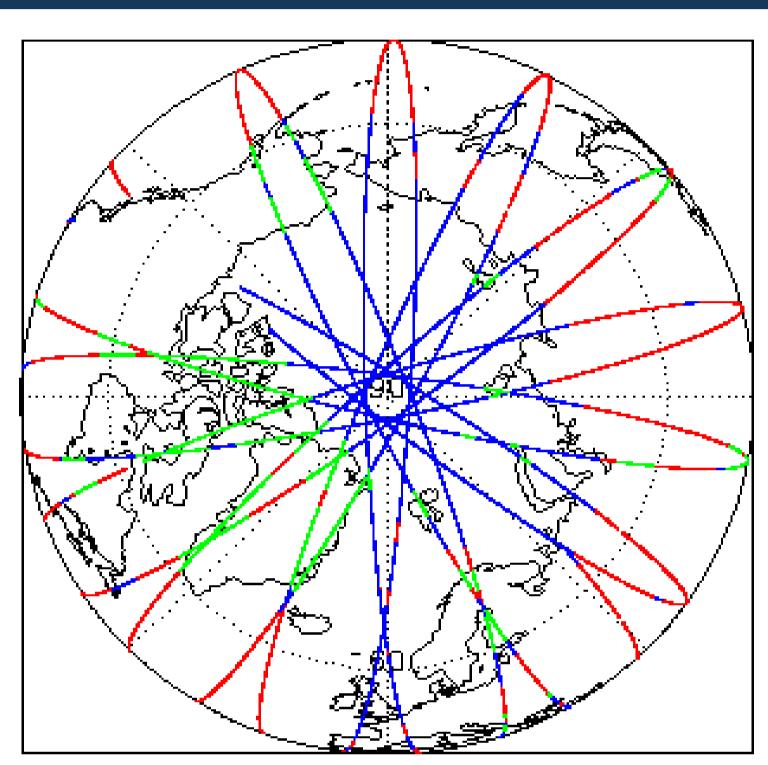
We would love to hear from you!
Please let us know your feedback about these daily
quality reports: What do you like/ dislike? What quality

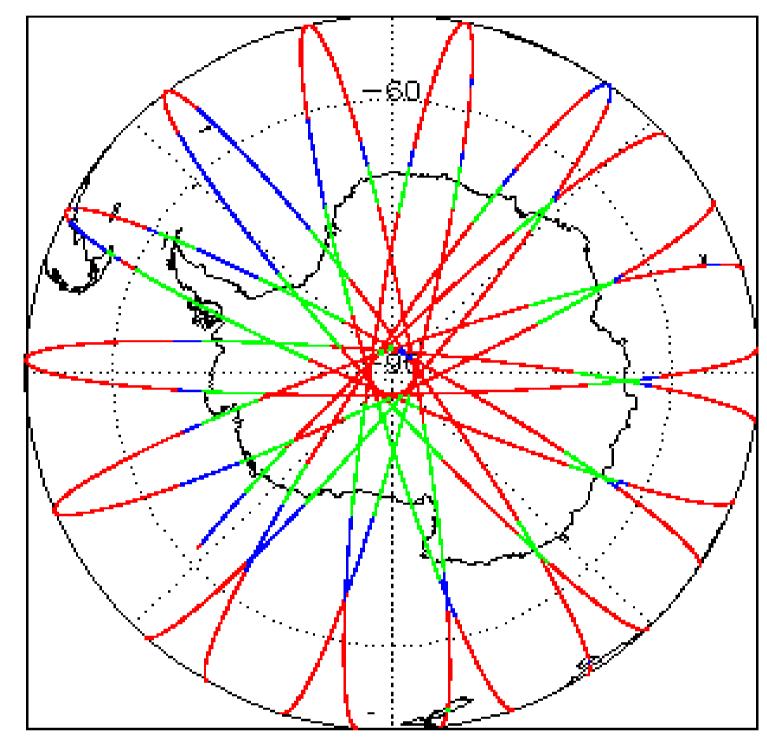
quality reports: What do you like/ dislike? What qualing information do you need? Send your feedback to cs2_qc_team@telespazio.com

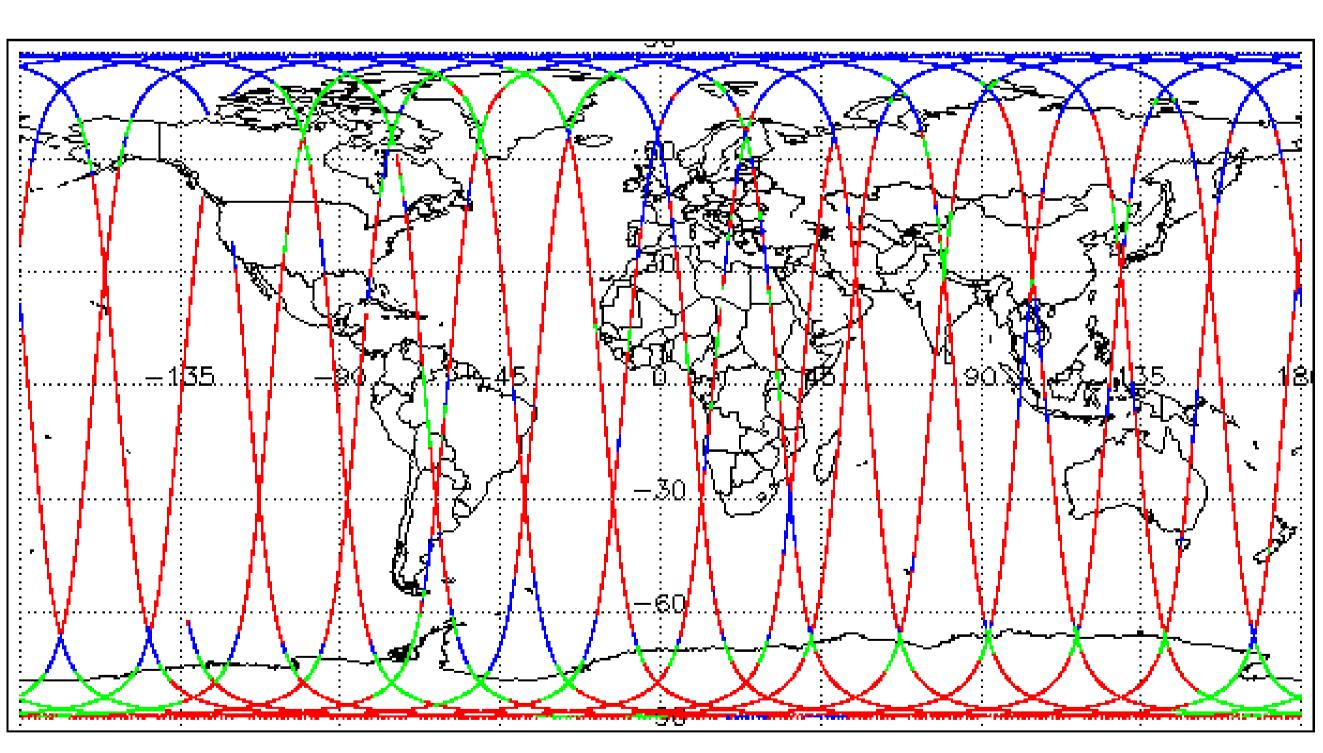
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

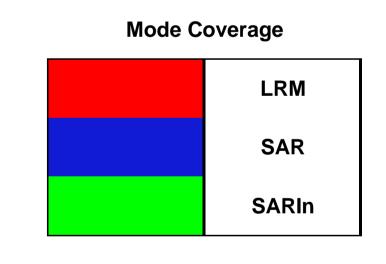
Mission / Instru	Mission / Instrument News	
10-Jan-2023	None	
11-Jan-2023	None	
12-Jan-2023 SIRAL unavailability 18:03:56 to 19:51:42 due to an Orbit Control Manoeuvre		

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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.

0

0

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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.

20

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230111T064155_20230111T065420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230111T131557_20230111T135029_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230111T142442_20230111T143154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T040204_20230111T040634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T045306_20230111T045701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T054616_20230111T054741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T071000_20230111T071025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T081121_20230111T081338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T085403_20230111T085546_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T104221_20230111T104504_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T161951_20230111T162221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T180215_20230111T180326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T190106_20230111T190234_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230111T194035_20230111T194223_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: 0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors: 54

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230111T094159_20230111T094237_C001	liviean Dynamic Lobography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230111T094237_20230111T094241_C001	IIVIean Dynamic Lobography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPM_2_20230111T125242_20230111T125332_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_20230111T003652_20230111T003817_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_20230111T021623_20230111T021748_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_20230111T022301_20230111T022603_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_20230111T035631_20230111T035935_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_20230111T040204_20230111T040634_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_20230111T045306_20230111T045701_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_20230111T053642_20230111T053916_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_20230111T063154_20230111T063310_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_20230111T063512_20230111T063754_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_20230111T071143_20230111T071748_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_20230111T081121_20230111T081338_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_20230111T085403_20230111T085546_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_20230111T095049_20230111T095533_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_20230111T104221_20230111T104504_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_20230111T121326_20230111T121715_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_20230111T135306_20230111T135621_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_20230111T140134_20230111T140252_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_20230111T144405_20230111T144436_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154153_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_20230111T161951_20230111T162221_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_20230111T162254_20230111T162416_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_20230111T175655_20230111T180118_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_20230111T180215_20230111T180326_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_20230111T185617_20230111T185851_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_20230111T193754_20230111T194035_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_20230111T194035_20230111T194223_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_20230111T203529_20230111T203858_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_20230111T211654_20230111T212045_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_20230111T221638_20230111T221820_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_20230111T012711_20230111T013352_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_20230111T013353_20230111T013658_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_20230111T030611_20230111T031252_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_20230111T031252_20230111T031459_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_20230111T044718_20230111T045148_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_20230111T045149_20230111T045306_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_20230111T062522_20230111T063022_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_20230111T063023_20230111T063153_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_20230111T080655_20230111T081121_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_20230111T094242_20230111T094508_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_20230111T094640_20230111T095048_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_20230111T112104_20230111T113129_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_20230111T125333_20230111T125434_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_20230111T130442_20230111T131230_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_20230111T144436_20230111T145511_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_20230111T162416_20230111T162936_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_20230111T180326_20230111T180848_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_20230111T185851_20230111T190106_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_20230111T194223_20230111T194924_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_20230111T200756_20230111T200925_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_20230111T212046_20230111T212551_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_20230111T225746_20230111T230625_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (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.

0

Number of products with errors: 89

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230111T000739_20230111T001409_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_20230111T001414_20230111T002016_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_20230111T002019_20230111T002557_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_20230111T003008_20230111T003607_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_20230111T003817_20230111T004610_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_20230111T004959_20230111T012307_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_20230111T013658_20230111T013747_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_20230111T020325_20230111T021544_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_20230111T021749_20230111T022301_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_20230111T022845_20230111T025114_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_20230111T025359_20230111T030327_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_20230111T033400_20230111T034009_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_20230111T034116_20230111T035323_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_20230111T040844_20230111T044119_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_20230111T045751_20230111T051712_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_20230111T051717_20230111T052951_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_20230111T053917_20230111T054112_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_20230111T054305_20230111T054616_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_20230111T054742_20230111T060337_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_20230111T060540_20230111T061557_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_20230111T063754_20230111T064010_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_20230111T064155_20230111T065420_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_20230111T071045_20230111T071142_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_20230111T072049_20230111T072517_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_20230111T072724_20230111T074204_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_20230111T074344_20230111T074627_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_20230111T082910_20230111T083138_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_20230111T083140_20230111T085315_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_20230111T085547_20230111T090424_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_20230111T090648_20230111T093155_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_20230111T095744_20230111T100226_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
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CS_OFFL_SIR_GOPM_2_20230111T100535_20230111T103138_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_20230111T103802_20230111T104221_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_20230111T104529_20230111T111305_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_20230111T111313_20230111T111543_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_20230111T113900_20230111T121046_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_20230111T121715_20230111T122301_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_20230111T122443_20230111T123044_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_20230111T123514_20230111T124128_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_20230111T131557_20230111T135029_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_20230111T135621_20230111T140133_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_20230111T140330_20230111T140622_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_20230111T140638_20230111T142241_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_20230111T145511_20230111T150431_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_20230111T150545_20230111T152310_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_20230111T152321_20230111T152903_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_20230111T153438_20230111T153622_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_20230111T153629_20230111T154041_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_20230111T154242_20230111T160451_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_20230111T160523_20230111T161812_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_20230111T161812_20230111T161909_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_20230111T163714_20230111T165042_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_20230111T165433_20230111T170039_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_20230111T170157_20230111T170833_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_20230111T170959_20230111T171522_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_20230111T171528_20230111T171534_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_20230111T171541_20230111T171758_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

### DESCRIPTION AND ADDRESS 20200111119228 20200111119259.001 CS_OFF_SIR_GOPM_2_20220111119208_2020011119259.001 CS_OFF_SIR_GOPM_2_2022011119228_2020011119209.001 CS_OFF_SIR_GOPM_2_2022011119228_2020011119228_20101119290.001 CS_OFF_SIR_GOPM_2_2022011119228_2020011119290.001 CS_OFF_SIR_GOPM_2_2022011119228_2022011119290.001 CS_OFF_SIR_GOPM_2_2022011119228_2022011119290.001 CS_OFF_SIR_GOPM_2_2022011119228_2022011119290.001 CS_OFF_SIR_GOPM_2_2022011119228_2022011119290.001 CS_OFF_SIR_GOPM_2_202201111928_2022011119290.001 CS_OFF_SIR_GOPM_2_2022011119290.001 CS_OFF_SIR_GOPM_2_20220111792030.001 CS_OFF_SIR_GOPM_2_20220111792030.00			
CS_OFFL_SIR_GOPM_2_20220111716954_20220111716955_C001	CS_OFFL_SIR_GOPM_2_20230111T172628_20230111T173854_C001	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 set for one or more records
and Badscater Quality, COCS CS_OFFL_SIR_GOPM_2_202301117189159_20230111719472_CO01 CS_OFFL_SIR_GOPM_2_202301117189159_20230111719472_CO01 CS_OFFL_SIR_GOPM_2_20230111718959_20230111719582_CO01 CS_OFFL_SIR_GOPM_2_20230111719499_2023011171982_CO01 CS_OFFL_SIR_GOPM_2_20230111719499_2023011171982_CO01 CS_OFFL_SIR_GOPM_2_20230111719499_2023011171982_CO01 CS_OFFL_SIR_GOPM_2_20230111719499_2023011171982_CO01 CS_OFFL_SIR_GOPM_2_20230111719392_CO01 CS_OFFL_SIR_GOPM_2_20230111719392_CO01 CS_OFFL_SIR_GOPM_2_20230111719392_CO01 CS_OFFL_SIR_GOPM_2_20230111719392_CO01 CS_OFFL_SIR_GOPM_2_20230111719392_CO01 CS_OFFL_SIR_GOPM_2_20230111719492_CO01 CS_OFFL_SIR_GOPM_2_20230111719492_CO01 CS_OFFL_SIR_GOPM_2_20230111719392_CO01 CS_OFFL_SIR_GOPM_2_20230111719492_CO01 CS_OFFL_SIR_GOPM_2_20230111720259_CO01 CS_OFFL_SIR_GOPM_2_20230111720259_CO01 CS_OFFL_SIR_GOPM_2_20230111720259_CO01 CS_OFFL_SIR_GOPM_2_20230111720394_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO01 CS_OFFL_SIR_GOPM_2_2023011172094_CO03011722094_CO01 CS_OFFL_SIR_	CS_OFFL_SIR_GOPM_2_20230111T174006_20230111T175655_C001	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 set for one or more records
and the COGO Altimeter Range and Backscatter Quality Flags have before one or more records CS_OFFL_SIR_GOPM_2_202301117184926_202301117185421_C001 CS_OFFL_SIR_GOPM_2_202301117194026_202301117195022 C001 CS_OFFL_SIR_GOPM_2_202301117194026_20230111719500_C001 CS_OFFL_SIR_GOPM_2_20230111719500_C001 CS_OFFL_SIR_GOPM_2_202301117109100_C00111710000_C001 CS_OFFL_SIR_GOPM_2_202301117100119_20230111720000_C001 CS_OFFL_SIR_GOPM_2_202301117100119_20230111720000_C001 CS_OFFL_SIR_GOPM_2_202301117100119_202301117200000_C001 CS_OFFL_SIR_GOPM_2_20230111720119_202301117200000_C001 CS_OFFL_SIR_GOPM_2_20230111720119_2023011172000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20230111T181926_20230111T182955_C001	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 set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_2t220111T19830R_2t230111T199821_C001 CS_OFFL_SIR_GOPM_2_2t220111T19830R_2t230111T199821_C001 CS_OFFL_SIR_GOPM_2_2t220111T19830R_2t230111T199821_C001 CS_OFFL_SIR_GOPM_2_2t220111T19830R_2t230111T199821_C001 CS_OFFL_SIR_GOPM_2_2t220111T19830R_2t230111T199821_C001 CS_OFFL_SIR_GOPM_2_2t220111T19830R_2t230111T199821_C001 CS_OFFL_SIR_GOPM_2_2t220111T198211T19821C_C001 CS_OFFL_SIR_GOPM_2_2t22011T198211T19821C_C001 CS_OFFL_SIR_GOPM_2_2t22011T198214_C002011T19981C_C001 CS_OFFL_SIR_GOPM_2_2t22011T198534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1201110_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T120110C_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T17885351_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788534_2t23011T17885351_C001 CS_OFFL_SIR_GOPM_2_2t22011T1788538_2t23011T1788538_2t	CS_OFFL_SIR_GOPM_2_20230111T183158_20230111T184720_C001	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 set for one or more records
and the OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records CS OFFL SIR GOPM 2 202301117192217 20230111719220 C001 CS_OFFL_SIR_GOPM_2_202301117192217 20230111719220 C001 CS_OFFL_SIR_GOPM_2_202301117192217 20230111719200 C001 CS_OFFL_SIR_GOPM_2_202301117192217 20230111719200 C001 CS_OFFL_SIR_GOPM_2_202301117192217 20230111719200 C001 CS_OFFL_SIR_GOPM_2_202301117192217 20230111719200 C001 CS_OFFL_SIR_GOPM_2_20230111719201 C001 CS_OFFL_SIR_GOPM_2_20230111719201 C001 CS_OFFL_SIR_GOPM_2_20230111719201 C001 CS_OFFL_SIR_GOPM_2_202301171001 C001 CS_OFFL_SIR_GOPM	CS_OFFL_SIR_GOPM_2_20230111T184926_20230111T185421_C001	_	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T193242_202001 Backscatter Quality CS_OFFL_SIR_GOPM_2_20230111T192217_20230111T193202_C001 CS_OFFL_SIR_GOPM_2_2023011T194224_20230111T195400_C001 CS_OFFL_SIR_GOPM_2_2023011T195334_20230111T200120_C001 CS_OFFL_SIR_GOPM_2_2023011T195334_2023011T200120_C001 CS_OFFL_SIR_GOPM_2_2023011T120119_20230111T200120_C001 CS_OFFL_SIR_GOPM_2_2023011T120119_20230111T200335_C001 CS_OFFL_SIR_GOPM_2_2023011T20119_20230111T200335_C001 CS_OFFL_SIR_GOPM_2_2023011T1203339_2023011T203335_C001 CS_OFFL_SIR_GOPM_2_2023011T1203339_3023011T203335_C001 CS_OFFL_SIR_GOPM_2_2023011T1203339_3023011T203355_C001 CS_OFFL_SIR_GOPM_2_2023011T1203349_2023011T206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1203849_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1206842_C001 CS_OFFL_SIR_GOPM_2_2023011T1206842_C00	CS_OFFL_SIR_GOPM_2_20230111T190308_20230111T190821_C001	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 set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records CS_OFFL_SIR_GOPM_2_20230111T194924_20230111T200120_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203392_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203392_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203392_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_20230111T205624_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205627_2023011T20654_C001 CS_OFFL_SIR_GOPM_2_2023011T20654_C001 C	CS_OFFL_SIR_GOPM_2_20230111T191326_20230111T191500_C001	3	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality GS_OFFL_SIR_GOPM_2_20230111T19534_20230111T200120_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T200120_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001 CS_OFFL_SIR_GOPM_2_20230111T202659_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T202659_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T20682_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T20682_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T20682_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T20682_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001 CS_OFFL_SIR_GOPM_2_20230111T20138_20230111T20065_C001	CS_OFFL_SIR_GOPM_2_20230111T192217_20230111T193202_C001	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 set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001 CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001 CS_OFFL_SIR_GOPM_2_20230111T202659_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T203524_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T210654_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T210654_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T2140	CS_OFFL_SIR_GOPM_2_20230111T194924_20230111T195400_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 set for one or more records CS_OFFL_SIR_GOPM_2_20230111T202859_20230111T203335_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T203351_C001 CS_OFFL_SIR_GOPM_2_20230111T203349_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T20654_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T200654_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T20045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T220138_20230111T220045_C001	CS_OFFL_SIR_GOPM_2_20230111T195534_20230111T200120_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_202301111203339_202301117203351_C001 Backscatter Quality CS_OFFL_SIR_GOPM_2_202301117203339_202301117203351_C001 CS_OFFL_SIR_GOPM_2_202301117203399_202301117205824_C001 CS_OFFL_SIR_GOPM_2_202301117203949_202301117205824_C001 CS_OFFL_SIR_GOPM_2_202301117205827_202301117205824_C001 CS_OFFL_SIR_GOPM_2_202301117205827_20230111720654_C001 CS_OFFL_SIR_GOPM_2_202301117205827_20230111720045_C001 CS_OFFL_SIR_GOPM_2_202301117214028_20230111720045_C001 CS_OFFL_SIR_GOPM_2_202301117200138_20230111720015_C001 CS_OFFL_SIR_GOPM_2_20230111720138_20230111720015_C001 CS_OFFL_SIR_GOPM_2_202301117200138_20230111720015_C001 CS_OFFL_SIR_GOPM_2_202301117200138_20230	CS_OFFL_SIR_GOPM_2_20230111T201119_20230111T202624_C001	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 set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230111T203399_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205824_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T210654_C001 CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T210654_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T220138_20230111T220615_C001 CCG_Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have be altered and companies to the companies of the companies of the companies to the companies of the companies of the companies to the companies of the companies of the companies to the companies of the companies	CS_OFFL_SIR_GOPM_2_20230111T202859_20230111T203335_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205824_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T210654_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T210654_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T220138_20230111T220615_C001 CS_OFFL_SIR_GOPM_2_20230111T200138_20230111T220615_C001 CS_OFFL_SIR_GOPM_2_20230111T220138_20	CS_OFFL_SIR_GOPM_2_20230111T203339_20230111T203351_C001	_	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T210654_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 CS_OFFL_SIR_GOPM_2_20230111T21038_20230111T220615_C001 CS_OFFL_SIR_GOPM_2_20230111T220138_20230111T220615_C001 CS_OFFL_SIR_GOPM_2_20230111T220138	CS_OFFL_SIR_GOPM_2_20230111T203949_20230111T205824_C001	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 set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T214028_20230111T220045_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_GOPM_2_20230111T220905_20230111T221250_C001 CS_OFFL_SIR_GOPM_2_20230111T220905_20230111T221250_C001 The OCOG Altimeter Range and Backscatter Quality Flags have be	CS_OFFL_SIR_GOPM_2_20230111T205827_20230111T210654_C001	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 set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T220138_20230111T220615_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have be OCOG Altimeter Range and Backscatter Quality Flags have be		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 set for one or more records
US OFFI SIR GOPM 2 202301111220905 202301111221250 C001	CS_OFFL_SIR_GOPM_2_20230111T220138_20230111T220615_C001	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 set for one or more records
	CS_OFFL_SIR_GOPM_2_20230111T220905_20230111T221250_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T221312_20230111T221637_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records	CS_OFFL_SIR_GOPM_2_20230111T221312_20230111T221637_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
		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 set for one or more records
		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 set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T234714_20230111T235205_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records	US OFFI SIR (30PM/ / 2023011111234/14 2023011111235205 COO1		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230111T235211_20230111T235541_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have be for one or more records	CS OFFE SIR GOPINEY 2023011111235211 2023011111235541 COO1		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_GOPM_2_20230111T235944_20230112T003341_C001	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 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.

Product CS_OFFL_SIR_GOPN_2_20230111T003652_20230111T003817_C001	Test Failed 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_20230111T004610_20230111T004723_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_20230111T015329_20230111T015514_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_20230111T033232_20230111T033359_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_20230111T035631_20230111T035935_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_20230111T040204_20230111T040634_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_20230111T044700_20230111T044718_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_20230111T045306_20230111T045701_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_20230111T053642_20230111T053916_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_20230111T054112_20230111T054305_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_20230111T063154_20230111T063310_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_20230111T071143_20230111T071748_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_20230111T072518_20230111T072700_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_20230111T081426_20230111T081603_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_20230111T081913_20230111T082036_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_20230111T090424_20230111T090603_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_20230111T094037_20230111T094159_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_20230111T094508_20230111T094521_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_20230111T095049_20230111T095533_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_20230111T095622_20230111T095744_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_20230111T103645_20230111T103801_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_20230111T104221_20230111T104504_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_20230111T121326_20230111T121715_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_20230111T124129_20230111T124323_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_20230111T124820_20230111T124919_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_20230111T130125_20230111T130206_C001 CS_OFFL_SIR_GOPN_2_20230111T140134_20230111T140252_C001 CS_OFFL_SIR_GOPN_2_20230111T142242_20230111T142441_C001 CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T154053_C001 CS_OFFL_SIR_GOPN_2_20230111T160315_20230111T180326_C001 CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CS_OFFL_SIR_GOPN_	ne or
CS_OFFL_SIR_GOPN_2_20230111T140134_20230111T140241_C001 CS_OFFL_SIR_GOPN_2_20230111T142242_20230111T142441_C001 CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154153_C001 CS_OFFL_SIR_GOPN_2_20230111T170833_20230111T170958_C001 CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CCG_Altimeter Range Quality PLRM, OCOG_Altimeter Range and Backscatter Quality Flags have set for one or more records CCG_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CCG_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CCG_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CCG_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CCG_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CCG_OFFL_SIR_GOPN_2_20230111T180215_20230	ne or
CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154153_C001 CS_OFFL_SIR_GOPN_2_20230111T154041_20230111T154153_C001 CS_OFFL_SIR_GOPN_2_20230111T170833_20230111T170958_C001 CS_OFFL_SIR_GOPN_2_20230111T170833_20230111T170958_C001 CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180215_20230111T180215_C001 CS_OFFL_SIR_GOPN_2_20230111T180215_	ne or
CS_OFFL_SIR_GOPN_2_20230111T184041_20230111T184153_C001 OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DCS_OFFL_SIR_GOPN_2_20230111T170833_20230111T170958_C001 OCOG Backscatter Quality OCOG Backscatter Quality DCS_OFFL_SIR_GOPN_2_20230111T170833_20230111T170958_C001 OCOG Backscatter Quality DCS_OFFL_SIR_GOPN_2_20230111T18033_20230111T180326_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records	ags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 CS_OFFL_SIR_GOPN_2_20230111T181634_20230111T181841_C001 OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records	•
CS_OFFL_SIR_GOPN_2_20230111T180215_20230111T180326_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM. Set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.	
CS OFFE SIR GOPN 2 202301111181634 202301111181841 COOL	•
	ne or
CS_OFFL_SIR_GOPN_2_20230111T185617_20230111T185851_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the control o	ne or
CS_OFFL_SIR_GOPN_2_20230111T191500_20230111T192022_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the company o	ne or
CS_OFFL_SIR_GOPN_2_20230111T193659_20230111T193749_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 have set for one or more records	•
CS_OFFL_SIR_GOPN_2_20230111T193754_20230111T194035_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 have set for one or more records	•
CS_OFFL_SIR_GOPN_2_20230111T203529_20230111T203858_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one records	ne or
CS_OFFL_SIR_GOPN_2_20230111T211654_20230111T212045_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Altimeter Range and Backscatter Quality PLRM PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and the OCOG Altimeter	
CS_OFFL_SIR_GOPN_2_20230111T213817_20230111T214027_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the control o	ne or
CS_OFFL_SIR_GOPN_2_20230111T221638_20230111T221820_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Altimeter Range and Backscatter Quality PLRM PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and the OCOG Altimet	•
CS_OFFL_SIR_GOPN_2_20230111T234550_20230111T234714_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the company of the ocog Range and Backscatter Quality Flags have been set for one of the ocog Range and Backscatter Quality Flags have been set for occog Range and Backscatter Quality Flags have been set for	ne or
CS_OFFL_SIR_GOPN_2_20230111T235541_20230111T235723_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for occurrence of the control of the control ocognity of the control occurrence occurrence occurrence of the control occurrence occu	ne or
CS_OFFL_SIR_GOPR_2_20230111T004723_20230111T004958_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 have set for one or more records	•
CS_OFFL_SIR_GOPR_2_20230111T012711_20230111T013352_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 have set for one or more records	•
CS_OFFL_SIR_GOPR_2_20230111T013353_20230111T013658_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Altimeter Range and Backscatter Quality PLRM PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality F set for one or more records	•
CS_OFFL_SIR_GOPR_2_20230111T030611_20230111T031252_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 have set for one or more records	•
CS_OFFL_SIR_GOPR_2_20230111T031252_20230111T031459_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 F and the OCOG Altimeter Range and the OCOG Altimeter Range and the OCOG Altimeter Range and the OCOG Set for one or more records	•
CS_OFFL_SIR_GOPR_2_20230111T031735_20230111T032449_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the control o	ne or
CS_OFFL_SIR_GOPR_2_20230111T032632_20230111T032714_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the control o	ne or
CS_OFFL_SIR_GOPR_2_20230111T044249_20230111T044303_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one of the control o	ne or

CS_OFFL_SIR_GOPR_2_20230111T044718_20230111T045148_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_20230111T045149_20230111T045306_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_20230111T051712_20230111T051717_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_20230111T052952_20230111T053642_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_20230111T062522_20230111T063022_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_20230111T063023_20230111T063153_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_20230111T065420_20230111T065632_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_20230111T074627_20230111T074928_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_20230111T074928_20230111T075054_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_20230111T080655_20230111T081121_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_20230111T081338_20230111T081425_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_20230111T081655_20230111T081913_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_20230111T082626_20230111T082747_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_20230111T094242_20230111T094508_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_20230111T103139_20230111T103341_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_20230111T111543_20230111T111620_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20230111T112104_20230111T113129_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_20230111T125000_20230111T125241_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_20230111T143504_20230111T143519_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_20230111T144436_20230111T145511_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_20230111T162416_20230111T162936_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_20230111T162936_20230111T163152_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_20230111T163318_20230111T163510_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_20230111T163537_20230111T163714_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_20230111T181445_20230111T181505_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_20230111T185851_20230111T190106_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_20230111T193203_20230111T193248_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_20230111T194223_20230111T194924_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_20230111T200303_20230111T200754_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_20230111T212046_20230111T212551_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_20230111T212631_20230111T212838_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_20230111T224726_20230111T224816_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_20230111T225746_20230111T230625_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_20230111T230647_20230111T230919_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG 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.

211

71

153

0

> 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:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors: 0

6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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: 29

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220230110T235315_20230111T004253_C001	IIVIEAN DVNAMIC LODOGRADNY (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_220230111T004253_20230111T013230_C001	` , ,	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220230111T013230_20230111T022207_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_220230111T022207_20230111T031145_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_220230111T031145_20230111T040122_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_220230111T040122_20230111T045059_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_220230111T045059_20230111T054036_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_220230111T054036_20230111T063014_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_220230111T063014_20230111T071951_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_220230111T071951_20230111T080929_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_220230111T080929_20230111T085906_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_220230111T085906_20230111T094843_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_220230111T094843_20230111T103820_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_220230111T103820_20230111T112758_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_220230111T112758_20230111T121735_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_220230111T121735_20230111T130713_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_220230111T130713_20230111T135650_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_220230111T135650_20230111T144627_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_220230111T144627_20230111T153604_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_220230111T153604_20230111T162542_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_220230111T162542_20230111T171519_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_220230111T171519_20230111T180457_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_220230111T180457_20230111T185434_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_220230111T185434_20230111T194411_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_220230111T194411_20230111T203348_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_220230111T203348_20230111T212326_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_220230111T212326_20230111T221303_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_220230111T221303_20230111T230241_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_220230111T230241_20230111T235218_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more 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:

0

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.

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.

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

30

28

30

30

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	194	194	8	186	0
SIR_GOPR1B	150	150	0	150	0
SIR_GOPN1B	105	105	1	104	0
SIR_GOPM_2	194	194	131	63	0
SIR_GOPR_2	150	150	71	77	2
SIR_GOPN_2	105	105	39	66	0
SIR_GOP_P2P	29	29	0	26	3

7.1 QCC Errors

Number of QCC reports with errors:

5

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	3	3	3	3							

Test 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

2257

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	186	0	0	0	0	0	0
SIR_GOPM_2	0	0	51	55	0	44	0
SIR_GOPN1B	102	0	0	0	0	0	0
SIR_GOPN_2	0	0	8	33	5	21	26
SIR_GOPR1B	146	0	0	0	0	0	0
SIR_GOPR_2	0	2	27	44	0	20	17

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	36	0	41	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	13	0	0	0	24	0	33
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	9	1	0	47	0	54	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	33	0	0	10	28	0	5
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	28	12	43	56	33
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	47	0	3	68	33	11

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	40	0	4	0	0	0	0
SIR_GOPN1B	0	0	0	1	0	47	1
SIR_GOPN_2	27	33	16	1	1	0	0
SIR_GOPR1B	0	0	0	0	0	150	10
SIR_GOPR_2	30	47	2	0	3	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	18	28	29	5	29	15	27

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	1	14	177	21	18	29	17

SIIN_GOF_Z_	29	13	19	29				
Test Description Key:								
Abbreviation	Test name		Details					
BCSHNCDF	BurstCounterStep20HzNetCDF		The burst counter should be	e one higher with regard to th	he previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange		The mapping of 20 Hz to 1	Hz measurements should be	e in the range 0 to (number of	1 Hz samples - 1)		
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF		The value should not be a '	missing value' for surface typ	pe 0 only for latitudes betwee	n -70 and 70 degrees		
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF		The value should not be a '	missing value' for surface typ	pe 0 only for latitudes betwee	n -70 and 70 degrees		
MVIONCDF	MissingValueIntOceanNetCDF		The value should not be a '	missing value' for surface typ	pe 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPol	arFD2NetCDF	The backscatter sigma zero between -70 and 70 degree		d 7500 (or missing) for surface	e type = ocean for latitudes		
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPol	arFD2PLRMNetCDF	The backscatter sigma zero between -70 and 70 degree		d 7500 (or missing) for surface	e type = ocean for latitudes		
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPol	arNetCDF	The backscatter sigma zero between -70 and 70 degree		d 7500 (or missing) for surface	e type = ocean for latitudes		
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF		The Non-equilibrium long p surface type = ocean	eriod ocean loading tide heig	ght should be between -40mm	and 40mm (or missing) fo		
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF		The Peakiness should be band 70 degrees	etween 0 and 6400 (or missi	ing) for surface type = ocean	for latitudes between -70		
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARN		The Peakiness should be band 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocear	for latitudes between -70		
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNe	tCDF	The Peakiness should be band 70 degrees	etween 0 and 90000 (or miss	sing) for surface type = ocear	for latitudes between -70		
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF		The Peakiness should be band 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocear	for latitudes between -70		
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF		The Peakiness should be band 70 degrees	etween 0 and 90000 (or miss	sing) for surface type = ocear	for latitudes between -70		
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF		The Peakiness should be band 70 degrees	etween 0 and 6400 (or missi	ing) for surface type = ocean	for latitudes between -70		
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF		The Peakiness should be band 70 degrees	etween 0 and 15000 (or miss	sing) for surface type = ocear	for latitudes between -70		
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF		The Peakiness should be band 70 degrees	etween 0 and 90000 (or miss	sing) for surface type = ocear	for latitudes between -70		
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF		The sea state bias correction	on should be between -500m	nm and 0mm (or missing) for s	surface type = ocean		
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF		The sea surface height and ocean	maly should be between -30	000mm and 3000mm (or missi	ng) for surface type =		
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMN	etCDF	The sea surface height and ocean	maly should be between -30	000mm and 3000mm (or missi	ng) for surface type =		
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF		The sea surface height and ocean	maly should be between -30	000mm and 3000mm (or missi	ng) for surface type =		
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarF		The significant wave height latitudes between -70 and 7		nd 15000mm (or missing) for s	surface type = ocean for		
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarF	D2PLRMNetCDF	The significant wave height latitudes between -70 and 7		nd 15000mm (or missing) for s	surface type = ocean for		

RSWHOEPFDPLRMNCDF RSWHOEPNCDF

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SPHLPQWNCDF

The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample

The sequence counter should be modulo 4 higher with regard to the previous sequence counter

Rel_Time_ASC_Node_Stop mismatch

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7.3 Missing QCC Reports

RSWHOEPNCDF

SCSTODHRNCDF

SOOHHIFHD

SPHRTASCNSNCDF

Number of products with missing QCC reports:

RangeSignificantWaveHeightOceanExcludingPolarNetCDF

SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF

SameOrOneHigher1HzIndexFor20HzData

SequenceCounterStepTODHRNetCDF

RSWHOEPFDNCDF

15

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RSSHAONCDF

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Product Type

SIR_GOP_2_