

1. Overview

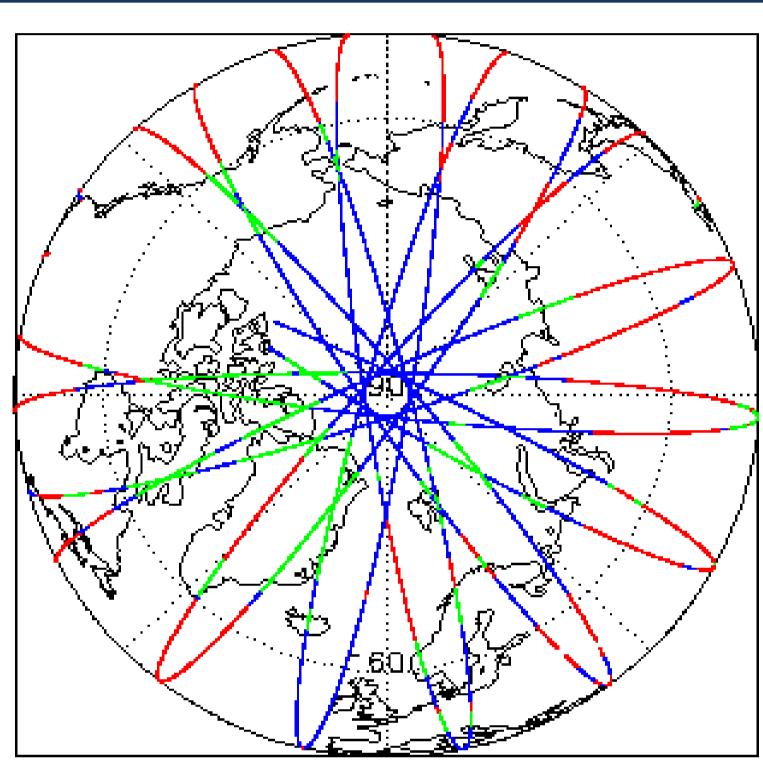
Report Production:	23-Jun-2023	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

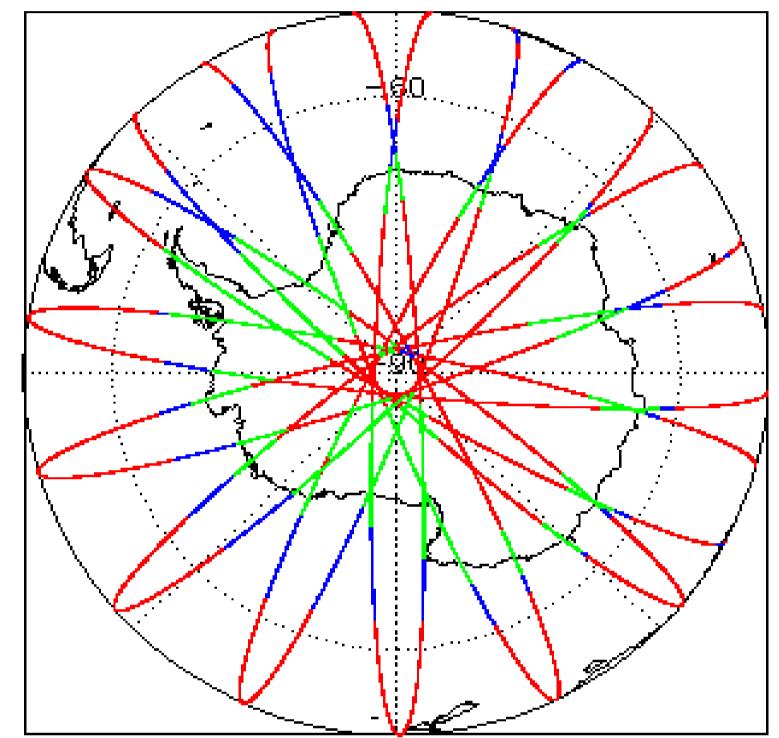
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Please let us know your feedback about these daily
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information do you need? Send your feedback to
cs2_qc_team@telespazio.com

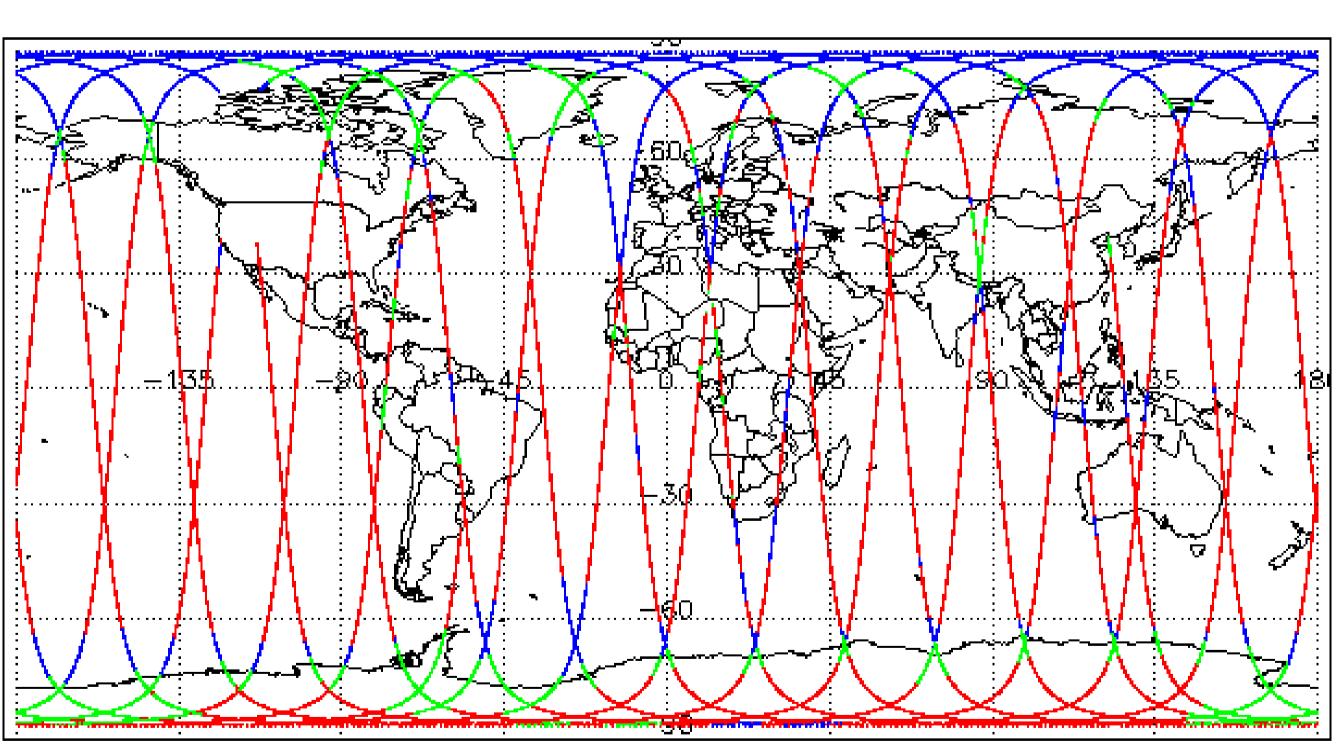
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

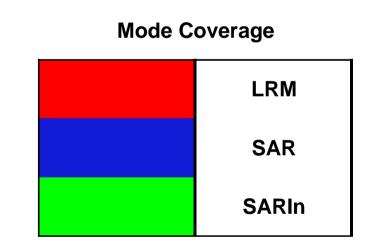
N	Mission / Instrument News		
	24-May-2023	None	
	25-May-2023	None	
	26-May-2023	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230525T011539_20230525T011851_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

17

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230525T055623_20230525T055651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230525T112652_20230525T114209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230525T000715_20230525T001307_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230525T002024_20230525T002202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230525T024538_20230525T025027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230525T105151_20230525T105330_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230525T191931_20230525T191952_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T010836_20230525T010953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T011222_20230525T011319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T042123_20230525T042432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T050538_20230525T050821_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T091421_20230525T091521_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T181010_20230525T181355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230525T181919_20230525T182051_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:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230525T054751_20230525T054852_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230525T174801_20230525T174847_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_20230525T000715_20230525T001307_C001	Mean Sea 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_20230525T010120_20230525T010223_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_20230525T010625_20230525T010836_C001	Mean Sea 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_20230525T014912_20230525T015055_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_20230525T015934_20230525T020136_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_20230525T024141_20230525T024204_C001	Mean Sea 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_20230525T024538_20230525T025027_C001	Mean Sea 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_20230525T041948_20230525T042123_C001	Mean Sea 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_20230525T042432_20230525T042532_C001	Mean Sea 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_20230525T050822_20230525T050942_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_20230525T050946_20230525T051216_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_20230525T064812_20230525T065124_C001	Mean Sea 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_20230525T073247_20230525T073414_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_20230525T073920_20230525T073930_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_20230525T082558_20230525T083009_C001	Mean Sea 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_20230525T083541_20230525T083706_C001	Mean Sea 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_20230525T091521_20230525T091921_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_20230525T101334_20230525T101517_C001	Mean Sea 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_20230525T105723_20230525T105818_C001	Mean Sea 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_20230525T115128_20230525T115345_C001	Mean Sea 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_20230525T123521_20230525T123734_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_20230525T132144_20230525T132336_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_20230525T133024_20230525T133506_C001	Mean Sea 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_20230525T141203_20230525T141558_C001	Mean Sea 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_20230525T141612_20230525T141721_C001	Mean Sea 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_20230525T150151_20230525T150422_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_20230525T151141_20230525T151329_C001	Mean Sea 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_20230525T164034_20230525T164205_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_20230525T182052_20230525T182205_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_20230525T182944_20230525T183100_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_20230525T200005_20230525T200129_C001	Mean Sea 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_20230525T200638_20230525T200947_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_20230525T214052_20230525T214338_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_GOPN_2_20230525T214542_20230525T215109_C001	Mean Sea 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_20230525T222959_20230525T223107_C001	IIVIean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20230525T223637_20230525T224104_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_GOPN_2_20230525T231858_20230525T232253_C001	Mean Sea 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_20230525T010224_20230525T010316_C001	Mean Sea 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_20230525T010317_20230525T010624_C001	Mean Sea 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_20230525T024205_20230525T024538_C001	Mean Sea 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_20230525T041628_20230525T041747_C001	IIVIean Dynamic Lobodraphy (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230525T042123_20230525T042432_C001	Mean Sea 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_20230525T042532_20230525T042605_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_GOPR_2_20230525T054853_20230525T055048_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_20230525T055950_20230525T060745_C001	Mean Sea 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_20230525T073930_20230525T074727_C001	Mean Sea 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_20230525T091921_20230525T092029_C001	Mean Sea 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_20230525T092029_20230525T092709_C001	Mean Sea 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_20230525T105819_20230525T110400_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_GOPR_2_20230525T123734_20230525T124305_C001	Mean Sea 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_20230525T140855_20230525T141120_C001	Tide (GOT) Total Geocentric Ocean	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_GOPR_2_20230525T141558_20230525T141612_C001	Mean Sea 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_20230525T141722_20230525T142117_C001	Mean Sea 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230525T011539_20230525T011851_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230524T235539_20230525T000715_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_20230525T001308_20230525T001529_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_20230525T001602_20230525T002023_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_20230525T002245_20230525T002911_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_20230525T003022_20230525T003706_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_20230525T003846_20230525T005418_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_20230525T012022_20230525T012248_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_20230525T012411_20230525T012837_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_20230525T013200_20230525T014746_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_20230525T015056_20230525T015934_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_20230525T020205_20230525T022432_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_20230525T030118_20230525T032643_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_20230525T033012_20230525T033200_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_20230525T033259_20230525T033732_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_20230525T034133_20230525T034530_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_20230525T034559_20230525T040551_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230525T043851_20230525T050538_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_20230525T051217_20230525T051809_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_20230525T051956_20230525T054051_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_20230525T061044_20230525T064437_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230525T065124_20230525T065641_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_20230525T065925_20230525T070122_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_20230525T072416_20230525T072553_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_20230525T073414_20230525T073814_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_20230525T075040_20230525T082351_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_20230525T083009_20230525T083127_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_20230525T083134_20230525T083541_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_20230525T083856_20230525T085048_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_20230525T085236_20230525T085853_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_20230525T090028_20230525T090511_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_20230525T093019_20230525T100253_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_20230525T100511_20230525T101026_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_20230525T102127_20230525T105143_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_20230525T105330_20230525T105646_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_20230525T111032_20230525T112447_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_20230525T112652_20230525T114209_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_20230525T114422_20230525T114925_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_20230525T115850_20230525T120905_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_20230525T121011_20230525T121241_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_20230525T121525_20230525T122757_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_20230525T122836_20230525T123015_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_20230525T130231_20230525T130513_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_20230525T130652_20230525T132108_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_20230525T132337_20230525T132836_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_20230525T132902_20230525T132911_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_20230525T133532_20230525T140855_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_20230525T143825_20230525T150007_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_20230525T150422_20230525T150754_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_20230525T151437_20230525T154007_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_20230525T161433_20230525T164011_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_20230525T164206_20230525T164709_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_20230525T164716_20230525T165044_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CRITIC SET COMES 2003/05/11/05/2003/2003/2003/2003/2003/2003/2003/2	CS_OFFL_SIR_GOPM_2_20230525T165421_20230525T172821_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
20.00FL_SRC_30-FL_2_202020119200_202020119214_0000 20.00FL_SRC_30-FL_2_202020119200_202020119214_00000 20.00FL_SRC_30-FL_2_2020202119200_202020119214_000000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20230525T175044_20230525T180102_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Continued Cont	CS_OFFL_SIR_GOPM_2_20230525T181355_20230525T181919_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description	CS_OFFL_SIR_GOPM_2_20230525T182205_20230525T182742_C001	1	
CS OPPL SIN GOPPL 2 JUDIOSST 19825 CODE	CS_OFFL_SIR_GOPM_2_20230525T182910_20230525T182944_C001	1	
Deckeration California (Control of California (California (Control of California (California (C	CS_OFFL_SIR_GOPM_2_20230525T183358_20230525T190743_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_COPFL_2_02392521794015_0209252120008_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_70799521794795_C011 CS_OFFL_SIR_COPFL_2_02392521791792_7079952179495_C011 CS_OFFL_SIR_COPFL_2_02392521791793_7079952179495_C011 CS_OFFL_SIR_COPFL_2_02392521791593_7079952179495_C011 CS_OFFL_SIR_COPFL_2_02392521791593_7079952179794_C011 CS_OFFL_SIR_COPFL_2_02392521791595_7079952179794_C011 CS_OFFL_SIR_COPFL_2_0239252179195_7079952179794_C011 CS_OFFL_SIR_COPFL_2_0239252179195_707995_	CS_OFFL_SIR_GOPM_2_20230525T193529_20230525T193913_C001	3	
Buckstoater Oually CS_OFFL_SIR_GOPM_2_202305257201252_202300251201703_D001 Dosen Altrinder Range are Buckstoater Oually Flags and Buckstoater Oually Flags are Buckstoater Oually Flags and Buckstoater Oually Flags and Buckstoater Oually Flags are Buckstoater Oually Flags and Buckstoater Oually Flags and Buckstoater Oually Flags are Buckstoater Oually Flags and Buckstoater Oually Flags and Buckstoater Oually Flags are Buckstoater Oually Flags and Buckstoater Oually Flags and Buckstoater Oually Flags are Buckstoater Oually Flags and Buckstoater Oually Flags are Buckstoater Oually Flags and	CS_OFFL_SIR_GOPM_2_20230525T194015_20230525T195824_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flookscarter Quality, COCO All memors Range and Backscarter Quality Flags two between Range and Backscarter Quality Flags	CS_OFFL_SIR_GOPM_2_20230525T200129_20230525T200638_C001		
and the DOOG Affracter Range and Backsceather Quality, DOOG CS_OFFL_SR_GOPM_2_202305257215257_20230525720940_COOI CS_OFFL_SR_GOPM_2_202305257215257_20230525720940_COOI CS_OFFL_SR_GOPM_2_202305257215257_20230525720940_COOI CS_OFFL_SR_GOPM_2_20230525720955_20230525720940_COOI CS_OFFL_SR_GOPM_2_20230525720955_202305257220940_COOI CS_OFFL_SR_GOPM_2_20230525720955_202305257220960_COOI CS_OFFL_SR_GOPM_2_20230525720955_20230525720950_COOI CS_OFFL_SR_GOPM_2_20230525720055_20230525720950_COOI CS_OFFL_SR_GOPM_2_20230525720055_20230525720950_COOI CS_OFFL_SR_GOPM_2_20230525720055_20230525720950_COOI CS_OFFL_SR_GOPM_2_20230525720055_20230525720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023052720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023052720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023052720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023055720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023052720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023052720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_2023052720050_COOI CS_OFFL_SR_GOPM_2_20230525720055_20230527120510_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_202305257100344_202305257100511_COOI CS_OFFL_SR_GOPM_2_2023052571	CS_OFFL_SIR_GOPM_2_20230525T201252_20230525T204703_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
And Backcatter Quality Flags have been and Backcatter Qua	CS_OFFL_SIR_GOPM_2_20230525T211633_20230525T213408_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOS Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality and the OCOS Altimeter Range and Backscatter Quality and to OCOS Altimeter Range and Backscatter Quality and the OCOS Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230525T193054_20230525T1955Q. COOS Altimeter Range Altimeter R	CS_OFFL_SIR_GOPM_2_20230525T215257_20230525T220940_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
od Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, and Backscatter Quality Flags have been set on one or more records CS_OFFL_SIR_GOPM_2_20230525T232606_20230525T232954_CO01 CS_OFFL_SIR_GOPM_2_20230525T232606_20230525T232954_CO01 CS_OFFL_SIR_GOPM_2_20230525T232606_20230525T232954_CO01 CS_OFFL_SIR_GOPM_2_20230525T232966_20230525T232954_CO01 CS_OFFL_SIR_GOPM_2_20230525T233161_20230525T233954_CO01 CS_OFFL_SIR_GOPM_2_20230525T233161_20230525T23539_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T23539_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T23539_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T23539_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T23539_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T35589_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051938_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051938_CO01 CS_OFFL_SIR_GOPM_2_20230525T1051810_20230525T051938_CO01 CS_OFFL_SIR_GOPM_2_20230525T105348_20230525T105191_CO01 CS_OFFL_SIR_GOPM_2_20230525T105348_20230525T105191_CO01 CS_OFFL_SIR_GOPM_2_20230525T105348_20230525T105191_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T11510_CO01 CS_OFFL_SIR_GOPM_2_20230525T1120005_20230525T143159_CO01 CS_OFFL_SIR_GOPM_2_20230525T114004_20230525T143159	CS_OFFL_SIR_GOPM_2_20230525T220958_20230525T222304_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230525T232606_20230525T232954_CO01 CS_OFFL_SIR_GOPM_2_20230525T233151_20230525T234714_CO01 CS_OFFL_SIR_GOPM_2_20230525T233151_20230525T234714_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T2349714_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T235839_CO01 CS_OFFL_SIR_GOPM_2_20230525T034916_20230525T235839_CO01 CS_OFFL_SIR_GOPM_2_20230525T034916_20230525T035936_CO01 CS_OFFL_SIR_GOPM_2_20230525T034916_20230525T035936_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051936_CO01 CS_OFFL_SIR_GOPM_2_20230525T058554_20230525T05936_CO01 CS_OFFL_SIR_GOPM_2_20230525T058554_20230525T065900_CO01 CS_OFFL_SIR_GOPM_2_20230525T005354_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510 CO01 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510 C	CS_OFFL_SIR_GOPM_2_20230525T224146_20230525T225950_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230525T233151_20230525T234714_CO01 CS_OFFL_SIR_GOPM_2_20230525T233151_20230525T234714_CO01 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T235839_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T25839_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051836_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051936_CO01 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051936_CO01 CS_OFFL_SIR_GOPM_2_20230525T0518590_CO01 CS_OFFL_SIR_GOPM_2_20230525T05185854_20230525T065900_CO01 CS_OFFL_SIR_GOPM_2_20230525T1085854_20230525T100511 C001 CS_OFFL_SIR_GOPM_2_20230525T103334_20230525T100511 C001 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510_CO01 CS_OFFL_SIR_GOPM_2_20230525T113348_20230525T113159_CO01 CS_OFFL_SIR_GOPM_2_20230525T113348_20230525T113159_CO01 CS_OFFL_SIR_GOPM_2_20230525T113348_20230525T113159_CO01 CS_OFFL_SIR_GOPM_2_20230525T113354_20230525T113159_CO01 CS_OFFL_SIR_GOPM_2_20230525T113354_20230525T113159_CO01 CS_OFFL_SIR_GOPM_2_20230525T113354_2030525T113159_CO01 CS_OFFL_SIR_GOPM_2_20230525T113354_2030525T1	CS_OFFL_SIR_GOPM_2_20230525T230236_20230525T231441_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T235839_C001 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T235839_C001 CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T051936_C001 CS_OFFL_SIR_GOPM_2_20230525T051810_20230525T051936_C001 CS_OFFL_SIR_GOPM_2_20230525T065864_20230525T051936_C001 CS_OFFL_SIR_GOPM_2_20230525T065864_20230525T065900_C001 CS_OFFL_SIR_GOPM_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPM_2_20230525T115348_20230525T1121011_C001 CS_OFFL_SIR_GOPM_2_20230525T120005_20230525T121011_C001 CS_OFFL_SIR_GOPM_2_20230525T12005_20230525T121011_C001 CS_OFFL_SIR_GOPM_2_20230525T12005_20230525T121011_C001 CCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPM_2_20230525T232606_20230525T232954_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230525T051810_20230525T051936_C001 CS_OFFL_SIR_GOPN_2_20230525T051810_20230525T051936_C001 CS_OFFL_SIR_GOPN_2_20230525T0588654_20230525T085900_C001 CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T085900_C001 CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T143348_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T143348_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143155_C001 CCOG Altimeter Range Quality, OCOG Backscatter	CS_OFFL_SIR_GOPM_2_20230525T233151_20230525T234714_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230525T085854_20230525T085900_C001 CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T14348_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CCOG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCOG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230525T234916_20230525T235839_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T12011_C001 CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T12011_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143615_C001 CCGA Altimeter Range Quality, OCCG Backscatter Quality CCGA Altimeter Range Quality, OCCG Backscatter Quality The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230525T051810_20230525T051936_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143615_C001	CS_OFFL_SIR_GOPN_2_20230525T085854_20230525T085900_C001	1	
CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Some of the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143243_20230525T143245_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143245_C001 CS_OFFL_SIR_GOPN_2_20230525T143245_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143245_C001 CS_OFFL_SIR_GOPN_2_20230525T143245_C001 CS_OFFL_SIR_GOPN_2_20230525T143245_C001 CS_OFFL_SIR_GOPN_2_	CS_OFFL_SIR_GOPN_2_20230525T100334_20230525T100511_C001		, ,
CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001 Backscatter Quality Gor one or more records CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143615_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143615_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143615_C001 CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143615_C001	CS_OFFL_SIR_GOPN_2_20230525T115348_20230525T115510_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001 Backscatter Quality For one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPN_2_20230525T120905_20230525T121011_C001		
U.S. OFFI, SIR GOPN / /1/305/51143/43 /1/305/51143615 COOT	CS_OFFL_SIR_GOPN_2_20230525T143054_20230525T143159_C001		
	CS_OFFL_SIR_GOPN_2_20230525T143243_20230525T143615_C001		
CS_OFFL_SIR_GOPN_2_20230525T191811_20230525T191819_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	CS_OFFL_SIR_GOPN_2_20230525T191811_20230525T191819_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPR_2_20230525T043729_20230525T043850_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	
CS_OFFL_SIR_GOPR_2_20230525T140855_20230525T141120_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	
CS_OFFL_SIR_GOPR_2_20230525T191820_20230525T191857_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors: 108

COCG Allimeter Range Quality PLRM. COCG Range and Buckscatter Quality Flags have been set for one or non-records COCG Allimeter Range Quality PLRM. COCG Gallimeter Range Quality PLRM. COCG Gall	Number of products with errors: 108 Product	Test Failed	Description
COCC Assessment planty — More moves COCC Assess		OCOG Altimeter Range Quality PLRM	
COCC Backscare Gualty File Fi	CS_OFFL_SIR_GOPN_2_20230525T000715_20230525T001307_C001		
SCOPPLISH_COPPL_2_0220655701055_0220655701036_0001 COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of more records. COCO Allinear Range Country *URN: The COCO Range and Baseouther Quality Flags have been set for one of mor	CS OFFI SID CODN 2 20220525T002024 20220525T002202 C004	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
0.000 Biocheanter Cuality PLRN. CODE Brusteners Cuality PLRN. CODE	C3_OFFL_SIK_GOFIN_2_202303231002024_202303231002202_C001	OCOG Backscatter Quality	more records
COOR Attractor Range Quality PLRM. The COOR Range and Backscaller Quality Flags have been set for one or must records. COOR Attractor Range Quality PLRM. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must records. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller Quality Flags have been set for one or must record. The COOR Range and Backscaller	CS OFFL SIR GOPN 2 20230525T010625 20230525T010836 C001		
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OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230525T042432_20230525T042532_C001	Altimeter Range and Backscatter Quality	
OCOG Backscatter Quality OCOG Backscatter Quality DCS_OFFL_SIR_GOPN_2_20230525T055924_20230525T055950_C001 OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCS_OFFL_SIR_GOPN_2_20230525T060924_20230525T061043_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backsca			The OCOG Range and Backscatter Quality Flags have been set for one or
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPN_2_20230525T060924_20230525T061043_C001 CS_OFFL_SIR_GOPN_2_20230525T065942_20230525T061043_C001 CS_OFFL_SIR_GOPN_2_20230525T065642_20230525T065754_C001 CS_OFFL_SIR_GOPN_2_20230525T065642_20230525T065754_C001 CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 CS_OFFL_SIR_GOPN_2_20230525T072910_20230525T073038_C001 CS_OFFL_SIR_GOPN_2_20230525	CS_OFFL_SIR_GOPN_2_20230525T050946_20230525T051216_C001		
Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPN_2_20230525T060924_20230525T061043_C001 CS_OFFL_SIR_GOPN_2_20230525T060924_20230525T061043_C001 CS_OFFL_SIR_GOPN_2_20230525T065642_20230525T065754_C001 CS_OFFL_SIR_GOPN_2_20230525T065642_20230525T065754_C001 CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230525T071903_20230525T072047_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records		1	
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality More records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230525T055924_20230525T055950_C001	Altimeter Range and Backscatter Quality	
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality More records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records		OCOG Altimeter Range Quality PLRM.	The OCOG Range and Backscatter Quality Flags have been set for one or
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, ocog and the OCOG Altimeter Range and Backscatter Quality PLRM, ocog and the OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Backscatter Quality PLRM, ocog and the OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, ocog and the OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230525T060924_20230525T061043_C001		
Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Plags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records	OC OFFI CID CODAL O 00000505T005040 00000505T005TT		
OCOG Backscatter Quality more records OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or	US_UFFL_SIK_GUPN_Z_202305251065642_202305251065754_C001	Altimeter Range and Backscatter Quality	
OCOG Backscatter Quality more records OCOG Backscatter Quality OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or	CS OFFI SID CODN 2 20220525T074002 20220525T072047 C224	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
.S OFFE SIR GOPN 2 202305251072910 202305251073038 C001	00_0 L_3 _\&_F _\Z_\Z\\Z\\\\\\\\\\\\\\\\\\\\\\\\\	OCOG Backscatter Quality	more records
OCOG Backscatter Quality more records	CS OFFI SIR GOPN 2 20230525T072010 20230525T073038 C001	1	
		OCOG Backscatter Quality	more records

CS_OFFL_SIR_GOPN_2_20230525T082558_20230525T083009_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_20230525T083541_20230525T083706_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_20230525T091521_20230525T091921_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_20230525T100334_20230525T100511_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_20230525T101334_20230525T101517_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_20230525T105151_20230525T105330_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_20230525T105723_20230525T105818_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_20230525T115128_20230525T115345_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_20230525T115348_20230525T115510_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_20230525T133024_20230525T133506_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_20230525T143054_20230525T143159_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_20230525T151141_20230525T151329_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_20230525T160520_20230525T160539_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_20230525T161256_20230525T161313_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_20230525T165044_20230525T165218_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_20230525T172821_20230525T173006_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_20230525T173040_20230525T173151_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_20230525T173851_20230525T174026_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_20230525T182052_20230525T182205_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_20230525T182742_20230525T182910_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_20230525T182944_20230525T183100_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_20230525T190914_20230525T190943_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_20230525T191811_20230525T191819_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_20230525T191857_20230525T191920_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_20230525T192145_20230525T192253_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_20230525T200005_20230525T200129_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_20230525T214542_20230525T215109_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_20230525T223637_20230525T224104_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_20230525T231858_20230525T232253_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_20230525T003706_20230525T003846_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_20230525T005419_20230525T005458_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_20230525T010034_20230525T010119_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_20230525T010317_20230525T010624_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_20230525T010836_20230525T010953_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_20230525T011222_20230525T011319_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_20230525T022432_20230525T022526_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_20230525T023847_20230525T024141_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_20230525T024205_20230525T024538_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_20230525T032644_20230525T032848_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_20230525T033952_20230525T034132_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_20230525T041628_20230525T041747_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_20230525T042123_20230525T042432_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_20230525T054711_20230525T054746_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_20230525T055406_20230525T055623_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_20230525T055950_20230525T060745_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_20230525T064437_20230525T064811_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_20230525T070530_20230525T070736_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_20230525T073109_20230525T073246_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_20230525T073930_20230525T074727_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_20230525T074834_20230525T075040_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_20230525T082351_20230525T082558_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_20230525T083707_20230525T083855_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_20230525T091217_20230525T091333_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_20230525T091921_20230525T092029_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_20230525T092029_20230525T092709_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_20230525T092817_20230525T092841_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_20230525T101518_20230525T102127_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_20230525T105819_20230525T110400_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_20230525T110414_20230525T110541_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_20230525T110844_20230525T111032_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_20230525T115510_20230525T115849_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_20230525T121241_20230525T121524_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_20230525T123015_20230525T123125_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_20230525T123425_20230525T123520_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_20230525T123734_20230525T124305_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_20230525T132108_20230525T132143_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_20230525T140855_20230525T141120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors: 210

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: 68

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: 164

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

0

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

	Test Failed	Description
S_OFFL_SIR_GOP_220230524T232511_20230525T001447_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
S_OFFL_SIR_GOP_220230525T001447_20230525T010426_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T010426_20230525T015402_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T015402_20230525T024340_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T024340_20230525T033316_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T033316_20230525T042255_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T042255_20230525T051231_C001	THOS (FES) NON-EQUIDATION LONG PENOG	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
S_OFFL_SIR_GOP_220230525T051231_20230525T060210_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T060210_20230525T065146_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T065146_20230525T074124_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
S_OFFL_SIR_GOP_220230525T074124_20230525T083100_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T083100_20230525T092039_C001		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
S_OFFL_SIR_GOP_220230525T092039_20230525T101015_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T101015_20230525T105954_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T105954_20230525T114929_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T114929_20230525T123908_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
S_OFFL_SIR_GOP_220230525T123908_20230525T132844_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T132844_20230525T141823_C001	Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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
S_OFFL_SIR_GOP_220230525T141823_20230525T150759_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T150759_20230525T155738_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T155738_20230525T164714_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T164714_20230525T173652_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T173652_20230525T182628_C001	Mean Sea 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
S_OFFL_SIR_GOP_220230525T182628_20230525T191607_C001	Mean Sea 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_220230525T200543_20230525T205522_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_220230525T205522_20230525T214458_C001	Mean Sea 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_220230525T214458_20230525T223436_C001	Mean Sea 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_220230525T223436_20230525T232412_C001	Mean Sea 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:

Product	Test Failed	Description		
CS_OFFL_SIR_GOP_220230525T010426_20230525T015402_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

30

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors: 30

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors: 30

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: 29

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

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	156	156	2	154	0
SIR_GOPR1B	133	133	0	133	0
SIR_GOPN1B	108	108	3	105	0
SIR_GOPM_2	156	156	101	55	0
SIR_GOPR_2	133	133	47	86	0
SIR_GOPN_2	108	108	40	68	0
SIR_GOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings

2208

0

Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOPM1B	154	0	0	0	0	0	0
SIR_GOPM_2	0	38	36	0	35	0	31
SIR_GOPN1B	104	0	0	0	0	0	0
SIR_GOPN_2	0	10	32	5	23	27	17
SIR_GOPR1B	127	0	0	0	0	0	0
SIR_GOPR_2	0	30	54	1	37	28	10

Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	31	0	0	0	0	23	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	24	0	32	0	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	57	0	62	0	0	54

Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	3	28	0	1	40	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	27	26	43	56	33	24	27
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	4	73	39	8	40	55

Product Type	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_GOPM1B	0	0	0	0	0	0	
SIR_GOPM_2	0	0	0	0	0	0	
SIR_GOPN1B	0	0	0	0	44	1	
SIR_GOPN_2	12	0	0	2	0	0	
SIR_GOPR1B	0	0	0	0	133	3	
SIR_GOPR_2	2	1	1	1	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	16	29	29	6	29	15	28

Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOP_2_	17	29	23	20	29	17	25

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
SIR_GOP_2_	29	18	11	29			

Test name	Details			
BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
IRANGERACKSCATTER SIGMA / OTOLIPLICOANE VCILIGING POLATELIA NIGILI I IE	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
TRANCEPEAKINGSSEYCHICINCPOIATUPELI/SARNIGIL DE	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
TRANGESEASUNACEMEIGNTANOMAIVOCEANFD3NETCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
TRANNESIONIUCANIWAVEREIONIUCEANEXCIUNINOPOIANIEU. DE	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)			
SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch			
SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample			
SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			
SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter			
	BurstCounterStep20HzNetCDF MissingValueIntOceanExcludingPolarFD2NetCDF MissingValueIntOceanExcludingPolarNetCDF MissingValueIntOceanNetCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF RangePeakinessExcludingPolarOPFD2SARNetCDF RangePeakinessExcludingPolarOPFD2SINNetCDF RangePeakinessExcludingPolarOPFD2SINNetCDF RangePeakinessExcludingPolarOPSARNetCDF RangePeakinessExcludingPolarOPSARNetCDF RangePeakinessExcludingPolarOPSARNetCDF RangePeakinessExcludingPolarOPSINNetCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF SPH_Rel_Time_ASC_Node_Start_v2_NetCDF SPH_Rel_Time_ASC_Node_Start_v2_NetCDF SameOrOneHigher1HzIndexFor20HzData SequenceCounterStepTODHRNetCDF			

7.3 Missing QCC Reports