

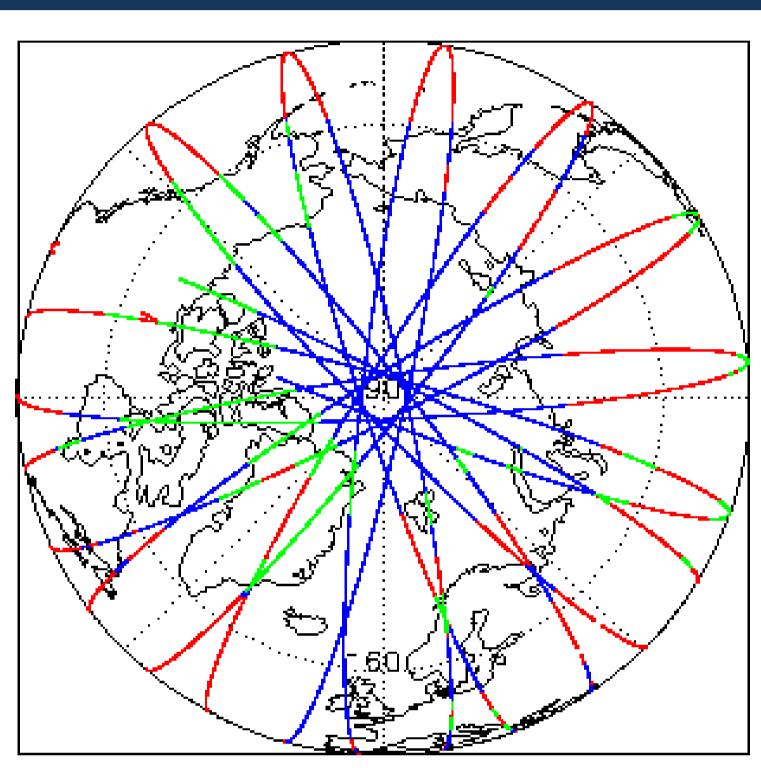
1. Overview

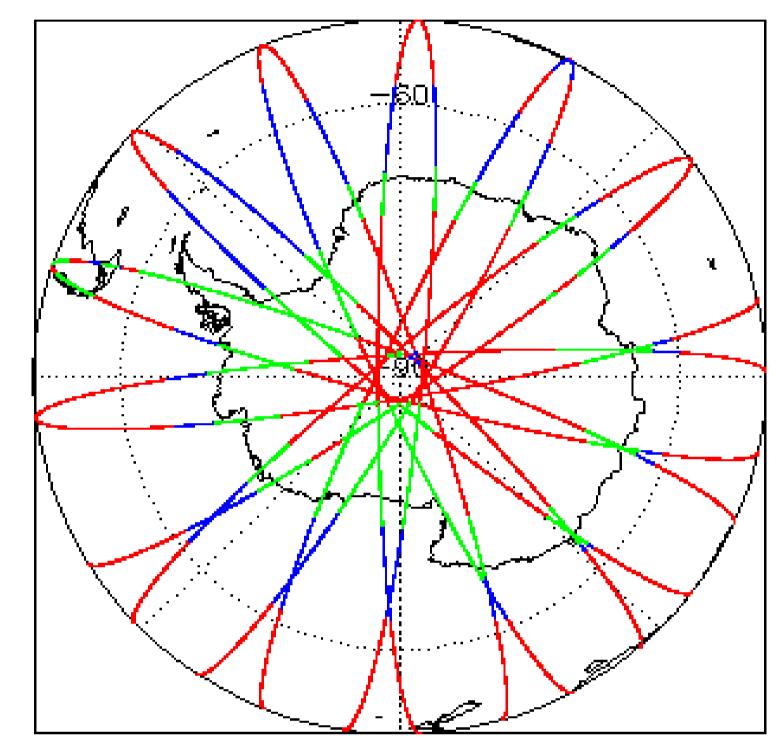
Report Production:	12-Jan-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

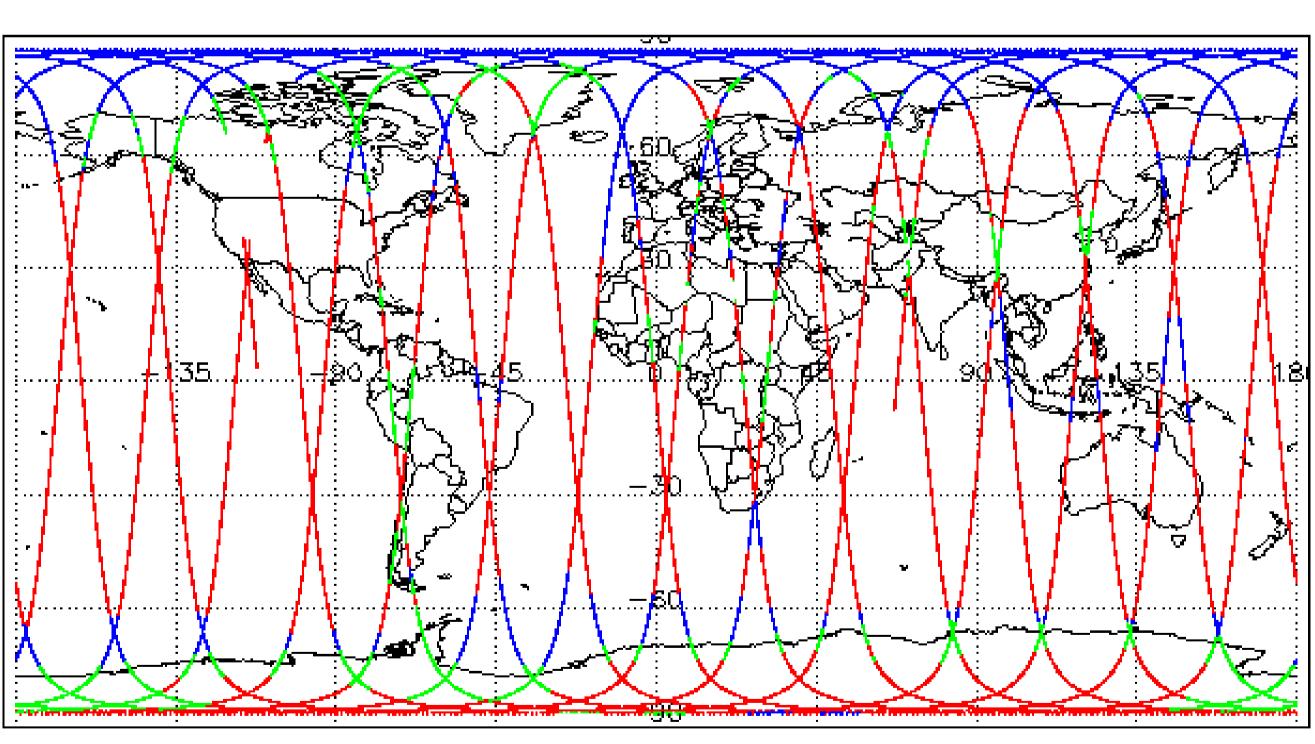
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2 and 7.3

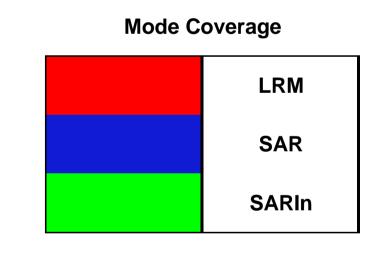
Mission / Instrument News		
09-Dec-2022	None	
10-Dec-2022	None	
11-Dec-2022	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

2

0

0

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221210T023033_20221210T023650_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20221210T190513_20221210T191741_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:

21

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221210T081510_20221210T082433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221210T085133_20221210T090150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221210T152615_20221210T155937_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221210T195048_20221210T200415_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221210T212020_20221210T212445_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T061140_20221210T061715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T075553_20221210T075731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T084136_20221210T084244_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T091541_20221210T091921_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T102053_20221210T102647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T151010_20221210T151113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T211051_20221210T211240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221210T214630_20221210T215142_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221210T015752_20221210T020523_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

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

0

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_20221210T081510_20221210T082433_C001	Mean Sea Surface (1), Total Geocentric	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPM_2_20221210T203010_20221210T204036_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_20221210T233911_20221210T234004_C001	Mean Sea 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_20221210T001706_20221210T001940_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_20221210T011642_20221210T011819_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_20221210T024649_20221210T024806_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_20221210T025339_20221210T025657_C001	Mean Sea 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_20221210T042610_20221210T042727_C001	Mean Sea 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_20221210T043236_20221210T043548_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_20221210T060708_20221210T060943_C001	Mean Sea 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_20221210T061140_20221210T061715_C001	Mean Sea 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_20221210T070229_20221210T070727_C001	Mean Sea 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_20221210T074607_20221210T074848_C001	Mean Sea 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_20221210T084136_20221210T084244_C001	Mean Sea 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_20221210T091541_20221210T091921_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20221210T102053_20221210T102647_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_20221210T111341_20221210T111607_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_20221210T124312_20221210T124454_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_20221210T142322_20221210T142652_C001	Mean Sea 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_20221210T160234_20221210T160555_C001	Mean Sea 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_20221210T161109_20221210T161233_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_20221210T165300_20221210T165441_C001	Mean Sea 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_20221210T175010_20221210T175119_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_20221210T183241_20221210T183348_C001	Mean Sea 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_20221210T192712_20221210T192907_C001	Mean Sea 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_20221210T201122_20221210T201304_C001	Mean Sea 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_20221210T210546_20221210T211044_C001	Mean Sea 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_20221210T214630_20221210T215142_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_20221210T223623_20221210T223922_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_20221210T224551_20221210T224839_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_20221210T232630_20221210T233006_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_20221210T001940_20221210T002727_C001	Mean Sea 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

Page			
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Topography (1) Topography (202212101112613_202212101120107_C0001 Topography (1) Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (Solution 1) for one or more records CS_OFFL_SIR_GOPR_2_20221210T183349_20221210T184109_C001 CS_OFFL_SIR_GOPR_2_20221210T183349_20221210T185048_C001 CS_OFFL_SIR_GOPR_2_20221210T194834_20221210T195048_C001 CS_OFFL_SIR_GOPR_2_20221210T20104_20221210T201951_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES) Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Solution 1), the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPR_2_20221210T233006_20221210T233225_C001 Mean Sea Surface	CS_OFFL_SIR_GOPR_2_20221210T101421_20221210T102052_C001		1
Topography (1) Topography (200212101133338 202212101154390 COOI Topography (1) Topography (1) Topography (1) Topography (1) Topography (200212101151355 CO02212101152158 COOI Mean Sea Surface (1), Mean Dynamic Topography (1) Interest is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) (soft and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1) (soft and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Soft), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (Soft), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1) for one or more records CS_OFFL_SIR_GOPR_2_20221210T201304_20221210T201951_CO01 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topograp	CS_OFFL_SIR_GOPR_2_20221210T115613_20221210T120107_C001	` ' '	, , , , , , , , , , , , , , , , , , , ,
Topography (1) Topography (2) Topography (2) Topography (3) Topography (4) Topography height (solution 1) for one or more records Topography (5) Topography (6) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for dia Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or	CS_OFFL_SIR_GOPR_2_20221210T133338_20221210T134306_C001	` '	1
Topography (1) Topography (222121011703442_202212101170341_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1). Total Geocentric Ocean Tide (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (solution 1) and the Total Geocentric Ocean Tide (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one o	CS_OFFL_SIR_GOPR_2_20221210T151355_20221210T152158_C001	` ' '	, , , , , , , , , , , , , , , , , , , ,
CS_OFFL_SIR_GOPR_2_20221210T170341_C001 Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (solution 1) GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1) GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1) GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records 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 There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPR_2_20221210T215142_20221210T215843_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records 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_20221210T165442_20221210T170152_C001		1
Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records 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_20221210T170225_20221210T170341_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
CS_OFFL_SIR_GOPR_2_20221210T194834_20221210T195048_C001 Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20221210T183349_20221210T184109_C001		, , , , , , , , , , , , , , , , , , , ,
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Topography (1) Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide	CS_OFFL_SIR_GOPR_2_20221210T201304_20221210T201951_C001		1
Topography (1) Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) for one or more records Topography height (solution 1) for one or more records Topography height (solution 1) and the Total Geocentric Ocean Tide	CS_OFFL_SIR_GOPR_2_20221210T215142_20221210T215843_C001	1	
CS_OFFL_SIR_GOPR_2_20221210T233225_20221210T233911_C001 Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide	CS_OFFL_SIR_GOPR_2_20221210T233006_20221210T233225_C001		1
	CS_OFFL_SIR_GOPR_2_20221210T233225_20221210T233911_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide

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_20221210T023033_20221210T023650_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20221210T190513_20221210T191741_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221209T234038_20221210T000829_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_20221210T000857_20221210T000921_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_20221210T004109_20221210T010529_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_20221210T010807_20221210T011306_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_20221210T012117_20221210T015437_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_20221210T020710_20221210T020911_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_20221210T023955_20221210T024335_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_20221210T024806_20221210T025338_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_20221210T030020_20221210T033328_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_20221210T034637_20221210T034753_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_20221210T040604_20221210T042237_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_20221210T042727_20221210T043235_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_20221210T043855_20221210T051242_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_20221210T053713_20221210T054146_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_20221210T054229_20221210T060009_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_20221210T060943_20221210T061140_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T061853_20221210T063252_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_20221210T063413_20221210T063600_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_20221210T064041_20221210T064923_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_20221210T065432_20221210T065434_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_20221210T070743_20221210T072520_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_20221210T072657_20221210T074103_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_20221210T075153_20221210T075553_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_20221210T075748_20221210T081253_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_20221210T081510_20221210T082433_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_20221210T083018_20221210T083030_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Code Altimeter Range and Backscatter Quality Code Altimeter Range and Backscatter Quality Code Altimeter Range and Backscatter Quality Code Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T109312_20221210T10922_C001 CS_OFFL_SIR_GOPM_2_20221210T10931_20221210T11027_C001 CS_OFFL_SIR_GOPM_2_20221210T110931_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110933_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110910_20221210T111341_C001 C
and backscatter Quality. COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_GOPM_2_20221210T090946_20221210T091540_C001 Cs_OFFL_SIR_GOPM_2_20221210T090946_20221210T092309_C001 Cs_OFFL_SIR_GOPM_2_20221210T0909921_20221210T092309_C001 Cs_OFFL_SIR_GOPM_2_20221210T0909921_20221210T092309_C001 Cs_OFFL_SIR_GOPM_2_20221210T0909852_20221210T093456_C001 Cs_OFFL_SIR_GOPM_2_20221210T093735_20221210T093456_C001 Cs_OFFL_SIR_GOPM_2_20221210T093735_20221210T093220_C001 Cs_OFFL_SIR_GOPM_2_20221210T093735_20221210T095222_C001 Cs_OFFL_SIR_GOPM_2_20221210T093735_20221210T095222_C001 Cs_OFFL_SIR_GOPM_2_20221210T093735_20221210T1095222_C001 Cs_OFFL_SIR_GOPM_2_20221210T10933_20221210T110227_C001 Cs_OFFL_SIR_GOPM_2_20221210T10933_20221210T110227_C001 Cs_OFFL_SIR_GOPM_2_20221210T10933_20221210T110227_C001 Cs_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 Cs_OFFL_SIR_GOPM_2_20221210T110533_20221210T1110739_C001 Cs_OFFL_SIR_GOPM_2_20221210T110533_20221210T1110739_C001 Cs_OFFL_SIR_GOPM_2_20221210T11053_20221210T1110739_C001 Cs_OFFL_SIR_GOPM_2_20221210T111053_20221210T1110739_C001 Cs_OFFL_SIR_GOPM_2_20221210T111053_2
And the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T091921_20221210T093309_C001 CS_OFFL_SIR_GOPM_2_20221210T0932652_20221210T0933456_C001 CS_OFFL_SIR_GOPM_2_20221210T093735_20221210T093222_C001 CS_OFFL_SIR_GOPM_2_20221210T093735_20221210T095222_C001 CS_OFFL_SIR_GOPM_2_20221210T102931_20221210T10272_C001 CS_OFFL_SIR_GOPM_2_20221210T102931_20221210T10272_C001 CS_OFFL_SIR_GOPM_2_20221210T102931_20221210T110272_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110273_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T1110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T1110533_20221210T1110533_20221210T1110533_20221210T1110533_20221210T111053_202221210T111053_202221210T111053_20221210T110
and Backscatter Quality. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T093456_C001 CS_OFFL_SIR_GOPM_2_20221210T093735_20221210T095222_C001 CS_OFFL_SIR_GOPM_2_20221210T102371_20221210T110227_C001 CS_OFFL_SIR_GOPM_2_20221210T102331_20221210T110227_C001 CS_OFFL_SIR_GOPM_2_20221210T10533_20221210T110227_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T1110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111053_20221210T1110533_20221210T1110533_20221210T1110533_20221210T1110533_20221210T1110533_20221210T1110533_20221210T1110533_20221210T
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221210T093735_20221210T095222_C001 CS_OFFL_SIR_GOPM_2_20221210T1093735_20221210T1095222_C001 CS_OFFL_SIR_GOPM_2_20221210T1093735_20221210T110227_C001 CS_OFFL_SIR_GOPM_2_20221210T10931_20221210T110227_C001 CS_OFFL_SIR_GOPM_2_20221210T10533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T11110533_20221210T11110533_20221210T11110533_20221210T11110533_20221210T1111053_20221210T111111111111111111111111111111
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been steed for one or more records CS_OFFL_SIR_GOPM_2_20221210T102931_20221210T11027_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T11027_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T11053_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T11053_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T11053_20221210T1114127_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T124336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T124336_20221210T124044_C
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110533_20221210T110739_C001 CS_OFFL_SIR_GOPM_2_20221210T110810_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110810_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T1114127_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 CS_OFFL_SIR_GOPM_2_20221210T112336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T124742_20221210T1247242_20221
CS_OFFL_SIR_GOPM_2_20221210T110810_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T110810_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T111341_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 CS_OFFL_SIR_GOPM_2_20221210T124342_20221210T125227_C001 CS_OFFL_SIR_GOPM_2_20221210T124342_20221210T125227_C001 CS_OFFL_SIR_GOPM_2_20221210T124342_20221210T125227_C001 CS_OFFL_SIR_GOPM_2_20221210T124342_20221210T125227_C001 CS_OFFL_SIR_GOPM_2_20221210T124342_20221210T125227_C001
CS_OFFL_SIR_GOPM_2_20221210T1110810_20221210T111341_C001 Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T111652_20221210T114127_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T121336_20221210T124024_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
US OFFI SIR (40PM 2 2022) 21210 124742 2022 2101 125227 C001
CS_OFFL_SIR_GOPM_2_20221210T125601_20221210T131554_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T131556_20221210T132358_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T133135_20221210T133338_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T134712_20221210T141938_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T142652_20221210T143223_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records
CS_OFFL_SIR_GOPM_2_20221210T143537_20221210T144011_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T151113_20221210T151354_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T152615_20221210T155937_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T160555_20221210T161109_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records
CS_OFFL_SIR_GOPM_2_20221210T161551_20221210T163249_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T170432_20221210T172503_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T172508_20221210T173809_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records
CS_OFFL_SIR_GOPM_2_20221210T174137_20221210T174556_C001 OCOG Altimeter Range Quality, OCOG for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records

Column C	CS_OFFL_SIR_GOPM_2_20221210T174602_20221210T174610_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
### CODE A First Flore or Updated the Code (First Flore) or Updated the Co	CS_OFFL_SIR_GOPM_2_20221210T174615_20221210T175009_C001	_	
Section (Labor 1997 & 202012 CT 1998) 200210171026 CD1 20.0FFL.SRC.0DFV 2.20212 CT 1998 200210171026 CD1 20.0FFL.SRC.0DFV 2.20212 CT 1999 200210171026 CD1 20.0FFL.SRC.0DFV 2.20212 CT 1990 200210171026 CD1 2	CS_OFFL_SIR_GOPM_2_20221210T175457_20221210T182832_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DELIGNATION DE LIBERTO DE LE DESCRIPTION DE LE DESCRIPTION DE LIBERTO DE LIBE	CS_OFFL_SIR_GOPM_2_20221210T182954_20221210T183240_C001	_	
Dec. CH. L. SER, GOPH. 2. 2022 (2017 EXTS). ADMITTED TRANSPORT COLOR. Dec. A Remote Planes of Dec. Color Color Amendment Planes (2014). Series of Service Amendment Planes (2014). Series of Service Amendment Planes (2014). Service A	CS_OFFL_SIR_GOPM_2_20221210T184426_20221210T185533_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OPPL_SIX_COPPL_2_2222_2111193516_2222_2111119456_CODE	CS_OFFL_SIR_GOPM_2_20221210T190015_20221210T190401_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
### Extractoral Dualsy Section of control Record Coll. C	CS_OFFL_SIR_GOPM_2_20221210T190513_20221210T191741_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
South Called County Southern County Southern County South Called County Southern County Sout	CS_OFFL_SIR_GOPM_2_20221210T191938_20221210T192456_C001	_	
DE OFFL SIR GOPM 2 2021110T16008 2021110T16008 COD Altrarde Range and Backscatter County Flags have been advised to an arrange and Backscatter County Flags and B	CS_OFFL_SIR_GOPM_2_20221210T192515_20221210T192711_C001		
and Edukscater Quality, OCDC Alternate Range and Backcater Quality Flags have been and be CODG Alternate Range and Backcater Quality Flags have been and be CODG Alternate Range and Backcater Quality Flags have been and be CODG Alternate Range and Backcater Quality Flags have been alternate Quality Flags have been alternated Range and Backcater Quality Flags have been alternated College Flags and Backcater Quality Flags have been alternated Range and Backcater Quality Flags have been and Backcater Quality Flags have been alternated Range R	CS_OFFL_SIR_GOPM_2_20221210T193529_20221210T194834_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Quality Flags have been afforder Range and Backscater Quality Flags have been set for a none seconds. CS_OFFL_SR_GOPM_2_202212107210506_20221210721038_C001 CS_OFFL_SR_GOPM_2_20221210721040_20221210721338_C001 CS_OFFL_SR_GOPM_2_202212107212020_20221210721338_C001 CS_OFFL_SR_GOPM_2_202212107212020_20221210721338_C001 CS_OFFL_SR_GOPM_2_202212107212020_20221210721340_C001 CS_OFFL_SR_GOPM_2_202212107213014_20221210721340_C001 CS_OFFL_SR_GOPM_2_202212107213014_20221210721340_C001 CS_OFFL_SR_GOPM_2_202212107213014_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210721340_C001 CS_OFFL_SR_GOPM_2_20221210722300_C002121072340_C001 CS_OFFL_SR_GOPM_2_20221210722300_C002121072340_C001 CS_OFFL_SR_GOPM_2_2022121072300_C002121072340_C001 CS_OFFL_SR_GOPM_2_2022121072300_C002121072340_C001 CS_OFFL_SR_GOPM_2_2022121072300_C002121072340_C001 CS_OFFL_SR_GOPM_2_20221210722300_C002121072340_C001 CS_OFFL_SR_GOPM_2_2022121072300_C002121072340_C001 CS_OFFL_SR_GOPM_2_2022121072300_C002121072340_C001 CS_OFFL_SR_GOPM_2	CS_OFFL_SIR_GOPM_2_20221210T195048_20221210T200415_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COG Altmeter Range and Backscatter Quality Flags have been Set Or one or more records CS_OFFL_SIR_GOPM_2_202212107204216_202212107206824_C001 CS_OFFL_SIR_GOPM_2_202212107206906_202212107210488_C001 CS_OFFL_SIR_GOPM_2_2022121072206906_202212107210488_C001 CS_OFFL_SIR_GOPM_2_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_202212107211040_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_202212107211040_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_202212107211040_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_202212107211040_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_202212107211040_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_20221210721200_2022121072110408_C001 CS_OFFL_SIR_GOPM_2_20221210721004_202212107210001 CS_OFFL_SIR_GOPM_2_20221210721004_202212107210001 CS_OFFL_SIR_GOPM_2_20221210721004_202212107210001 CS_OFFL_SIR_GOPM_2_202212107210114_202212107210001 CS_OFFL_SIR_GOPM_2_202212107210114_202212107210001 CS_OFFL_SIR_GOPM_2_202212107210114_202212107210001 CS_OFFL_SIR_GOPM_2_202212107210114_202212107210001 CS_OFFL_SIR_GOPM_2_202212107210114_202212107210001 CS_OFFL_SIR_GOPM_2_2022121072101142024_C001 CS_OFFL_SIR_GOPM_2_2022121072101142024_C001 CS_OFFL_SIR_GOPM_2_2022121072101142024_C001 CS_OFFL_SIR_GOPM_2_2022121072101142024_C001 CS_OFFL_SIR_GOPM_2_2022121072101142024_C001 CS_OFFL_SIR_GOPM_2_2022121072101142024_C001 CS_OFFL_SIR_GOPM_2_202212107220814_2022121072102081 C001 CS_OFFL_SIR_GOPM_2_202212107220814_202212107220815_C001 CS_OFF	CS_OFFL_SIR_GOPM_2_20221210T200504_20221210T200720_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Quality. OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscater Quality Flags	CS_OFFL_SIR_GOPM_2_20221210T203010_20221210T204036_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS OFFL SIR GOPM 2 20221210T211240 20221210T211338 CO01 CS_OFFL_SIR_GOPM_2_20221210T211240 20221210T211338 CO01 CS_OFFL_SIR_GOPM_2_20221210T211240 20221210T21338 CO01 CS_OFFL_SIR_GOPM_2_20221210T21240 20221210T21346_CO01 CS_OFFL_SIR_GOPM_2_20221210T213014_20221210T21346_CO01 CS_OFFL_SIR_GOPM_2_20221210T213014_20221210T213021_CO01 CS_OFFL_SIR_GOPM_2_20221210T213014_20221210T213021_CO01 CS_OFFL_SIR_GOPM_2_20221210T213049_2021210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213049_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T213426_CO01 CS_OFFL_SIR_GOPM_2_20221210T213649_20221210T223613_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_20221210T223613_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_20221210T223613_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_20221210T23614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_20221210T23614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_20221210T23614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223601_20221210T236142_CO01 CS_OFFL_SIR_GOPM_2_20221210T223601_20221210T236142_CO01 CS_OFFL_SIR_GOPM_2_20221210T223601_20221210T23614_CO01 CS_OFFL_SIR_GOPM_2_20221210T223601_20221210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_20221210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_20221210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_2021210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_2021210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_2021210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_2021210T23601_CO01 CS_OFFL_SIR_GOPM_2_20221210T23601_2021210T23601_CO01 CS_OF	CS_OFFL_SIR_GOPM_2_20221210T204215_20221210T205624_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records The Cocan Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T223921_20221210T23421_C001 DCCCG_Altimeter Range and Backscatter Quality Flags have been set for one	CS_OFFL_SIR_GOPM_2_20221210T205905_20221210T210408_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality Accord Backscatter Quality Flags have been Altimeter Range Quality Accord Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T213014_20221210T213021_C001 CS_OFFL_SIR_GOPM_2_20221210T213112_20221210T213426_C001 CS_OFFL_SIR_GOPM_2_20221210T213549_20221210T214242_C001 CS_OFFL_SIR_GOPM_2_20221210T213549_20221210T214242_C001 CS_OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_C001 CS_OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_C001 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223425_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223425_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223421_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T2234221_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T2234221_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T2234221_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T2234221_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T234024_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T234024_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T23404_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_	CS_OFFL_SIR_GOPM_2_20221210T211240_20221210T211338_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS OFFL_SIR_GOPM_2_20221210T213112_20221210T213426_C001 CS OFFL_SIR_GOPM_2_20221210T213112_20221210T213426_C001 CS OFFL_SIR_GOPM_2_20221210T213549_20221210T214242_C001 CS OFFL_SIR_GOPM_2_20221210T213549_20221210T214242_C001 CS OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_C001 CS OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_C001 CS OFFL_SIR_GOPM_2_20221210T220614_20221210T223513_C001 CS OFFL_SIR_GOPM_2_20221210T2233922_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T2233922_20221210T224325_C001 CS_OFFL_SIR_GOPM_2_20221210T2233911_20221210T233421_C001 CS_OFFL_SIR_GOPM_2_20221210T2233911_20221210T233421_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CCCG_Altimeter Ra	CS_OFFL_SIR_GOPM_2_20221210T212020_20221210T212445_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Alimeter Range and Backscatter Quality, OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T213549_20221210T214242_CO01 CS_OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_CO01 CS_OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_CO01 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_CO01 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_CO01 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_CO01 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223513_CO01 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223513_CO01 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223513_CO01 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223405_CO01 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223425_CO01 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T233911_20221210T234004_CO01 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_CO01 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_CO01 CS_OFFL_SIR_GOPM_2_20221210T235136_202212110T234004_CO01 CS_OFFL_SIR_GOPM_2_20221210T235136_202212110T001501_CO01 COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_CO01 CCS_OFFL_SIR_GOPM_2_20221210T235136_20221210T234004_CO01 CCS_OFFL_SIR_GOPM_2_20221210T235136_20221210T234004_CO01 CCS_OFFL_SIR_GOPM_2_20221210T235136_20221210T234004_CO01 CCS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_CO01 CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCCG_Altimeter Range and Backscatter Quality Flags have been set fo	CS_OFFL_SIR_GOPM_2_20221210T213014_20221210T213021_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_C001 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T2232421_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T2232421_C001 CS_OFFL_SIR_GOPM_2_20221210T223001_20221210T232421_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 COCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221210T213112_20221210T213426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T224325_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T224325_C001 CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T23421_C001 CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T232421_C001 CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T232421_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221210T213549_20221210T214242_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221210T223513_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T224325_C001 CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T224325_C001 CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T232421_C001 CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T232421_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 Altimeter Range Quality, OCOG Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20221210T220614_20221210T220619_C001		
CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T232421_C001 Backscatter Quality Ocean Altimeter Range, SSHA, SWH 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_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 DCGA Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221210T221438_20221210T223513_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T232421_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20221210T223922_20221210T224325_C001		
CS_OFFL_SIR_GOPM_2_202212101233911_202212101234004_C001 Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20221210T225001_20221210T232421_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20221210T233911_20221210T234004_C001		
	CS_OFFL_SIR_GOPM_2_20221210T235136_20221211T001501_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPN_2_20221210T003042_20221210T003046_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221210T061140_20221210T061715_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_GOPN_2_20221210T090357_20221210T090945_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

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:

91

Number of products with errors: 91	Took Foiled	Description
Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20221210T010638_20221210T010807_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_20221210T015437_20221210T015601_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_20221210T015645_20221210T015751_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_20221210T022109_20221210T022202_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_20221210T022504_20221210T022642_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_20221210T022659_20221210T023033_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_20221210T025339_20221210T025657_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_20221210T034450_20221210T034543_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_20221210T043236_20221210T043548_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_20221210T060708_20221210T060943_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_20221210T061140_20221210T061715_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_20221210T070229_20221210T070727_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_20221210T082433_20221210T082709_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_20221210T084136_20221210T084244_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_20221210T084347_20221210T084503_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_20221210T090357_20221210T090945_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_20221210T091541_20221210T091921_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_20221210T102053_20221210T102647_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_20221210T114127_20221210T114226_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_20221210T125228_20221210T125245_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_20221210T134306_20221210T134711_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_20221210T142322_20221210T142652_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_20221210T145136_20221210T145251_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_20221210T150435_20221210T150526_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_20221210T160234_20221210T160555_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_20221210T161109_20221210T161233_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_20221210T163249_20221210T163615_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_20221210T165300_20221210T165441_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_20221210T202653_20221210T203010_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_20221210T210546_20221210T211044_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_20221210T211344_20221210T211442_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_20221210T212446_20221210T212948_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_20221210T213427_20221210T213549_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_20221210T214630_20221210T215142_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_20221210T220732_20221210T221116_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_20221210T224551_20221210T224839_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_20221210T232630_20221210T233006_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_20221210T234005_20221210T234127_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_20221210T234606_20221210T234804_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_20221210T234915_20221210T235017_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_20221210T001940_20221210T002727_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_20221210T002729_20221210T003014_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_20221210T011819_20221210T012117_C001	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20221210T015752_20221210T020523_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_20221210T020911_20221210T021040_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_20221210T021436_20221210T021633_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_20221210T024335_20221210T024649_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_20221210T025657_20221210T030020_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_20221210T033329_20221210T034327_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_20221210T034928_20221210T035222_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_20221210T035438_20221210T035656_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_20221210T042237_20221210T042610_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_20221210T051354_20221210T051416_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_20221210T051550_20221210T052227_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_20221210T052227_20221210T053713_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_20221210T060009_20221210T060708_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_20221210T065217_20221210T065238_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20221210T070119_20221210T070228_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_20221210T074104_20221210T074607_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_20221210T083501_20221210T083753_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_20221210T083753_20221210T084136_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_20221210T092309_20221210T092436_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_20221210T095841_20221210T095934_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_20221210T095937_20221210T100032_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_20221210T101421_20221210T102052_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_20221210T102648_20221210T102930_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_20221210T115204_20221210T115423_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_20221210T115613_20221210T120107_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_20221210T124024_20221210T124312_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_20221210T133016_20221210T133135_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_20221210T133338_20221210T134306_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_20221210T141939_20221210T142322_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_20221210T144011_20221210T144321_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_20221210T150645_20221210T151001_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_20221210T151355_20221210T152158_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_20221210T152358_20221210T152521_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_20221210T155937_20221210T160234_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_20221210T164319_20221210T164634_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_20221210T165442_20221210T170152_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_20221210T170225_20221210T170341_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_20221210T175119_20221210T175457_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_20221210T183349_20221210T184109_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_20221210T184301_20221210T184316_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_20221210T192907_20221210T193529_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_20221210T194834_20221210T195048_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_20221210T200720_20221210T201047_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_20221210T201304_20221210T201951_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: 197

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: 63

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: 149

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:

0

0

6.3 P2P Auxiliary Data File Usage Check

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

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:

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220221209T233406_20221210T002342_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_220221210T002342_20221210T011321_C001	Mean Sea 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_220221210T011321_20221210T020257_C001	Mean Sea 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_220221210T020257_20221210T025236_C001	Mean Sea 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_220221210T025236_20221210T034211_C001	Mean Sea 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_220221210T034211_20221210T043150_C001	Mean Sea 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_220221210T043150_20221210T052126_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_220221210T052126_20221210T061105_C001	Mean Sea 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_220221210T061105_20221210T070041_C001	Mean Sea 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_220221210T070041_20221210T075020_C001	Mean Sea 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_220221210T075020_20221210T083955_C001	Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221210T083955_20221210T092934_C001	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
CS_OFFL_SIR_GOP_220221210T092934_20221210T101910_C001	Mean Sea 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_220221210T101910_20221210T110849_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221210T110849_20221210T115825_C001	Mean Sea 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_220221210T115825_20221210T124804_C001	Mean Sea 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_220221210T124804_20221210T133740_C001	Mean Sea 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_220221210T133740_20221210T142719_C001	Mean Sea 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_220221210T142719_20221210T151654_C001	Mean Sea 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_220221210T151654_20221210T160633_C001	Mean Sea 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_220221210T160633_20221210T165609_C001	Mean Sea 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_220221210T165609_20221210T174548_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_220221210T174548_20221210T183524_C001	Mean Sea 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_220221210T183524_20221210T192502_C001	Mean Sea 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_220221210T192502_20221210T201438_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221210T201438_20221210T210417_C001	Mean Sea 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_220221210T210417_20221210T215353_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 height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220221210T215353_20221210T224332_C001	Mean Sea 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_220221210T224332_20221210T233308_C001	Mean Sea 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_220221210T233308_20221211T002247_C002		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

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.

2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220221210T020257_20221210T025236_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220221210T183524_20221210T192502_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors: 30

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
<u> </u>	No. Floducts	No. QCC Reports	No. Vallu	No. Wallings	NO. Ellois
SIR_GOPM1B	198	198	6	192	0
SIR_GOPR1B	124	124	0	124	0
SIR_GOPN1B	104	104	4	100	0
SIR_GOPM_2	198	198	143	55	0
SIR_GOPR_2	124	124	33	91	0
SIR_GOPN_2	104	104	38	65	1
SIR GOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrence

	Total number of occurrences of each error										
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPN_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	1	1	1	1							

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

Number of QCC reports with warnings

2402

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	192	0	0	0	0	0	0
SIR_GOPM_2	0	0	40	42	1	46	0
SIR_GOPN1B	99	0	0	0	0	0	0
SIR_GOPN_2	0	1	10	32	4	29	26
SIR_GOPR1B	121	0	0	0	0	0	0
SIR_GOPR_2	0	0	38	49	3	35	26

Product Type	RBSZOPOEPNCDF	RLPTONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	37	6	0	35	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	17	47	0	0	0	21	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	11	49	4	0	50	0	62

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	27	0	0	7	32	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	33	0	0	27	16	40	52
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	0	50	0	3	74	45

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	4	37	0	1	0	0	0
SIR_GOPN1B	0	0	0	0	0	51	2
SIR_GOPN_2	26	29	29	9	1	0	0
SIR_GOPR1B	0	0	0	0	0	124	9
SIR_GOPR_2	13	41	51	4	0	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	11	29	29	8	29	18	29

	Product Type	RLPTONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
	SIR_GOP_2_	29	4	18	29	24	18	29
_		•						

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR_GOP_2_	18	24	29	19	9	29	

Test Description Key:	'est Description Kev:						
•	Test name	Details					
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tide height should be between -50mm and 50mm (or missing) for surface type = ocean					
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean					
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample					
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter					

7.3 Missing QCC Reports

Number of products with missing QCC reports:

L1B and L2 Product name

n/a

P2P Product name

CS_OFFL_SIR_GOP_2__20221210T233308_20221211T002247_C002