

1. Overview

Report Production:	14-Apr-2023	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

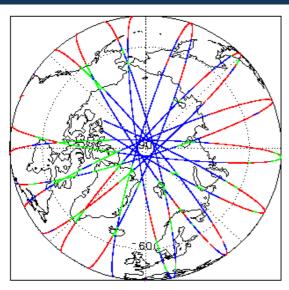
We would love to hear from you!

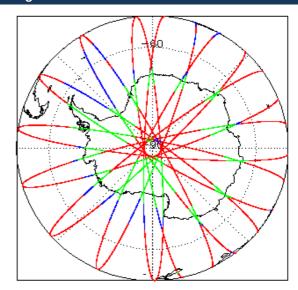
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

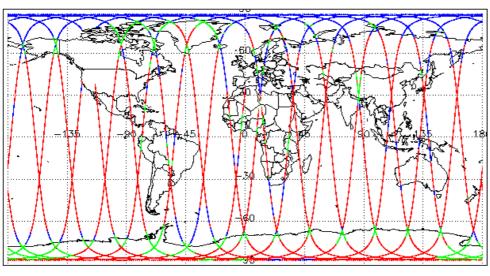
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

I	Mission / Instrument News	
	12-Mar-2023	None
	13-Mar-2023	None
	14-Mar-2023	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Λ

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:

14

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230313T045833_20230313T050059_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230313T130847_20230313T134135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230313T150503_20230313T152053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T031037_20230313T031134_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T031140_20230313T031154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T062349_20230313T062837_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T093735_20230313T093800_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T120408_20230313T120820_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T125143_20230313T125231_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230313T161331_20230313T161543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230313T075641_20230313T075834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230313T092705_20230313T092856_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230313T110407_20230313T110718_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230313T142950_20230313T142953_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

50

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230313T171318_20230313T174709_C001	IMean Dynamic Longgraphy (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230313T191836_20230313T192132_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

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Co. OFF. Bit Only 2 2000011710400 200001	CS_OFFL_SIR_GOPN_2_20230313T002917_20230313T003144_C001		
CQ_GFT_GR_COPPX00001710069_20001 Titles09_0001	CS_OFFL_SIR_GOPN_2_20230313T003520_20230313T003852_C001	` ''	
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Segment (1) and the segmen	CS_OFFL_SIR_GOPN_2_20230313T034529_20230313T035119_C001	,	
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Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (1)	CS_OFFL_SIR_GOPN_2_20230313T085622_20230313T085748_C001	Mean Dynamic Topography (1)	
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CS_OFFL_SIR_GOPN_2_20230313T161331_20230313T161544_C001 CS_OFFL_SIR_GOPN_2_20230313T161331_20230313T170149_C001 CS_OFFL_SIR_GOPN_2_20230313T170837_20230313T170149_C001 CS_OFFL_SIR_GOPN_2_20230313T170837_20230313T17317_C001 CS_OFFL_SIR_GOPN_2_20230313T170837_20230313T17317_C001 CS_OFFL_SIR_GOPN_2_20230313T175014_20230313T175408_C001 CS_OFFL_SIR_GOPN_2_20230313T175014_20230313T175408_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T184235_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184057_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184057_20230313T220018_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 There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography	CS_OFFL_SIR_GOPN_2_20230313T152941_20230313T153158_C001		
CS_OFFL_SIR_GOPN_2_20230313T161331_20230313T161544_C001 CS_OFFL_SIR_GOPN_2_20230313T165955_20230313T170149_C001 Mean Dynamic Topography (1) Mean Dynamic Topography (1) 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 There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), 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: GOT) 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 (1) There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS 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 Topograph	CS_OFFL_SIR_GOPN_2_20230313T160939_20230313T161237_C001	Total Geocentric Ocean Tide (GOT)	
Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPN_2_20230313T175014_20230313T175408_C001 CS_OFFL_SIR_GOPN_2_20230313T175014_20230313T175408_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T184235_C001 CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T184235_C001 CS_OFFL_SIR_GOPN_2_20230313T184957_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184957_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T184957_20230313T185142_C001 CS_OFFL_SIR_GOPN_2_20230313T25904_20230313T220018_C001 CS_OFFL_SIR_GOPN_2_20230313T23941_C001 CS_OFFL_SIR_GOPN_2_20230313T233819_20230313T233941_C001 CS_OFFL_SIR_GOPN_2_20230313T233819_20230313T233941_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Dynamic Topography (1) 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 (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) 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) the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (GOT). Total Geocentric Ocean Tide (GOT) and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Records Topography Tide Records Topography Tide Records Topography Tide Records Topography Tide Re	CS_OFFL_SIR_GOPN_2_20230313T161331_20230313T161544_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
CS_OFFL_SIR_GOPN_2_20230313T17837_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T175014_20230313T184035_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20230313T184004_20230313T184235_C001 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_GOPN_2_20230313T184957_20230313T185142_C001 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 (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) 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), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (6OT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea	CS_OFFL_SIR_GOPN_2_20230313T165955_20230313T170149_C001	Mean Dynamic Topography (1)	
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CS_OFFL_SIR_GOPN_2_20230313T220757_20230313T220913_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) 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 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 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) for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (solution 1); the Total Geocentric Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1); the Total Geocentric Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non-Equilibrium Long Period Ocean	CS_OFFL_SIR_GOPN_2_20230313T184957_20230313T185142_C001	, , ,	
CS_OFFL_SIR_GOPN_2_20230313T233819_20230313T233941_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 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 height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non	CS_OFFL_SIR_GOPN_2_20230313T215904_20230313T220018_C001	Mean Dynamic Topography (1)	
Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (FES) and th	CS_OFFL_SIR_GOPN_2_20230313T220757_20230313T220913_C001		
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Tide (FES),	CS_OFFL_SIR_GOPN_2_20230313T233819_20230313T233941_C001		
	CS_OFFL_SIR_GOPN_2_20230313T234451_20230313T234800_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean

CS_OFFL_SIR_GOPR_2_20230313T012020_20230313T012508_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T012508_20230313T012633_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T025811_20230313T030353_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20230313T030353_20230313T030505_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T044033_20230313T044126_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T044126_20230313T044435_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T045031_20230313T045125_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20230313T061557_20230313T061656_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_20230313T061656_20230313T062349_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T075852_20230313T080416_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T092705_20230313T092856_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_20230313T093719_20230313T093734_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20230313T093801_20230313T094554_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T111625_20230313T112540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T125731_20230313T130446_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T143629_20230313T144209_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T161544_20230313T162232_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T175408_20230313T175926_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20230313T180000_20230313T180110_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_20230313T193224_20230313T194221_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230313T000835_20230313T001321_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_20230313T001509_20230313T002819_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230313T003144_20230313T003519_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_20230313T004041_20230313T004720_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230313T004729_20230313T011336_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_20230313T011711_20230313T011726_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_20230313T011746_20230313T011846_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_20230313T013139_20230313T020258_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_20230313T021233_20230313T021426_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_20230313T021719_20230313T021901_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_20230313T022103_20230313T022725_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_20230313T024329_20230313T025008_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_20230313T031200_20230313T031448_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_20230313T031534_20230313T031748_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_20230313T031829_20230313T032731_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_20230313T033351_20230313T034528_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_20230313T035414_20230313T035836_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_20230313T040015_20230313T040725_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_20230313T040833_20230313T041518_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_20230313T041658_20230313T043130_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_20230313T045833_20230313T050059_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_20230313T050222_20230313T050706_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_20230313T051001_20230313T052642_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_20230313T052907_20230313T053747_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_20230313T053951_20230313T060239_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_20230313T061056_20230313T061321_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_20230313T064147_20230313T070606_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_20230313T071112_20230313T071544_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_20230313T071841_20230313T074414_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_20230313T075153_20230313T075237_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_20230313T081659_20230313T084507_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_20230313T085030_20230313T085622_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_20230313T085749_20230313T091703_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_20230313T091705_20230313T092002_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_20230313T092021_20230313T092304_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_20230313T092307_20230313T092510_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_20230313T092950_20230313T093009_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_20230313T093522_20230313T093620_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_20230313T094852_20230313T102406_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_20230313T102937_20230313T103454_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_20230313T103628_20230313T103935_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_20230313T104135_20230313T104352_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_20230313T111223_20230313T111500_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_20230313T112903_20230313T113739_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_20230313T114025_20230313T120324_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_20230313T120820_20230313T120939_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_20230313T120947_20230313T121354_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_20230313T121527_20230313T122900_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_20230313T123048_20230313T123638_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_20230313T123842_20230313T124322_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_20230313T130847_20230313T134135_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_20230313T134322_20230313T134839_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_20230313T135526_20230313T135637_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_20230313T135940_20230313T142949_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_20230313T143134_20230313T143533_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_20230313T145026_20230313T150258_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_20230313T150503_20230313T152053_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_20230313T152235_20230313T152737_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_20230313T152816_20230313T152940_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_20230313T153700_20230313T154717_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_20230313T155337_20230313T160451_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_20230313T164042_20230313T164324_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_20230313T164504_20230313T165947_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_20230313T170149_20230313T170649_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_20230313T171318_20230313T174709_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_20230313T181503_20230313T183925_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_20230313T184235_20230313T184607_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_20230313T184629_20230313T184956_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_20230313T185214_20230313T191827_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_20230313T191836_20230313T192132_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_20230313T195231_20230313T201847_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_20230313T202019_20230313T202522_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_20230313T202529_20230313T202856_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_20230313T203141_20230313T210635_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_20230313T212855_20230313T213348_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_20230313T215208_20230313T215839_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_20230313T220019_20230313T220555_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_20230313T221106_20230313T224509_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_20230313T225859_20230313T225957_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_20230313T231826_20230313T233809_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_20230313T233942_20230313T234451_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Deep (1994, 1994, 2004) Deep (1994, 1994, 200	Product	Test Failed	Description
De Clarica (1964) 2,992303710392 (2002) 170040 (2002) 1700		Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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
cel _perts_sels_compnessatisfactions_perts_sels_comp	CS_OFFL_SIR_GOPN_2_20230313T003520_20230313T003852_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SC CIFIL SIN GOPN 2 2000013710302 20000137101303 CR01 CR CIFIL SIN GOPN 2 2000013710302 20000137101313 CR01 CR CIFIL SIN GOPN 2 2000013710302 2000013710313 CR01 CR CIFIL SIN GOPN 2 2000013710302 2000013710303 CR01 CR CIFIL SIN GOPN 2 2000013710302 2000013710303 CR01 CR CIFIL SIN GOPN 2 2000013710302 2000013710303 CR01 CR CIFIL SIN GOPN 2 2000013710303	CS_OFFL_SIR_GOPN_2_20230313T012634_20230313T012655_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_GORN_2_reconstratorsess_monostationsess_colors and selected to one or more records. CS_OFFL_SR_GORN_2_reconstratorsess_monostationsess_colors. CS_OFFL_SR_GORN_2_reconstratorsess_colors. CS_OFFL_SR_GORN_2_	CS_OFFL_SIR_GOPN_2_20230313T012814_20230313T012826_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704502_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031704504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031705504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031705504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031705504_C001 CS_OFFL_SR_GOPN_2_2023031704507_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031705504_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317045047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317065047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317165047_2023031706505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317106505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317106505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317106505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317106505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317106505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317106505_C001 CS_OFFL_SR_GOPN_2_20230317165047_20230317	CS_OFFL_SIR_GOPN_2_20230313T013052_20230313T013139_C001		
CS_OFFL_SIR_GOPN_2_0020018T09092_2020018T09092_2020018T09092_COT COG_GAmericer Range Caulity PLRM. CCG_GAMERICER Range C	CS_OFFL_SIR_GOPN_2_20230313T020958_20230313T021233_C001		
OCC Bandwards Casiny OCC Altimeter Range Quality PLPM. The COCC Range and Backscatter Quality Rings have been set for one or more records. OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04484_0001 OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04484_0001 OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04484_0001 OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04484_0001 OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04484_0001 OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04593_0001 OCS_OFFL_SRI_GOPN_2_2020313T04489_2020313T04594_0001 OCS_OFFL_SRI_GOPN_2_2020313T04697_2020313T04694_0001 OCS_OFFL_SRI_GOPN_2_2020313T04697_2020313T04694_0001 OCS_OFFL_SRI_GOPN_2_2020313T04697_2020313T05931_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T05931_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06974_0001 OCS_OFFL_SRI_GOPN_2_2020313T06974_2020313T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T06977_0001 OCS_OFFL_SRI_GOPN_2_2020313T06977_00013T07697_0001 OCS_OFFL_SRI_GOPN_2_2020313T07697_200013T10997_0001 OCS_OFFL_SRI_GOPN_2_2020313T07697_00013T10997_0001 OCS_OFFL_SRI_GOPN_2_2020313T07697_00013T10997_0001 OCS_OFFL_SRI_GOPN_2_2020313T07697_00013T10997_0001 OCS_OFFL_SRI_GOPN_2_2020313T07697_00013T10997_0001 OCS_OFFL_SRI_GOPN_2_2020313T10997_00013T10997_00	CS_OFFL_SIR_GOPN_2_20230313T025027_20230313T025158_C001		
OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or order records The OCOG Range and Backscatter Quality Flags have been set for one or order records S. OFFL SIR GOPN 2_20200313T04492_20203313T045939_C001 OCOG Attender Range Quality PLFM. OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or order records The OCOG Range and Backscatter Quality Flags have been set for one or order records OCOG Attender Range Quality PLFM. OCOG Backscatter Quality PLFM. OCOG Backsc	CS_OFFL_SIR_GOPN_2_20230313T034529_20230313T035119_C001		, ,
OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T044392_20230313T045394_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T04527_20230313T045349_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050710_20230313T05001_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050710_20230313T050951_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050710_20230313T050951_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050951_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050954_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T060956_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T060934_20230313T060956_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T0760934_20230313T060956_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T0760935_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T0760935_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T074622_20230313T074927_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T074622_20230313T096095_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T074622_20230313T1096095_C001 OCOG Alimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T1096095_C001 OCOG Alimeter Range Cuality PLRM. CS_OFFL_SIR_	CS_OFFL_SIR_GOPN_2_20230313T043930_20230313T044032_C001		
OCOG Blackscatter Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T045227_20230313T05349_C001 OCOG Altimeter Range Quality PLRM. CCOG Blackscatter Quality PLRM. CCOG Altimeter Range And Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCOG Range and Blackscatter Quality Flags have been set for one or more records The CCCOG Range and Blackscatter Quality Flags have been set for one or more records The CCCOG Range and Blackscatter Quality Flags have been set for one or more records The CCCOG Range and Blackscatter Quality Flags have been set for one or more records The CCCOG Range and Blackscatter Quality Flags have been set for one or more records The CCCOG Range and Blackscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T06463_20230313T06492_C001 CS_OFFL_SIR_GOPN_2_20230313T06463_20230313T068020_C001 CS_OFFL_SIR_GOPN_2_20230313T06463_20230313T068020_C001 CS_OFFL_SIR_GOPN_2_20230313T10346	CS_OFFL_SIR_GOPN_2_20230313T044435_20230313T044646_C001		
OCOG Backscatter Guality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050710_20230313T050951_CO01 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050747_20230313T050951_CO01 Altimeter Range and Backscatter Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050747_20230313T050951_CO01 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20230313T050747_20230313T050956_CO01 OCOG Altimeter Range Quality PLRM. CSG Backscatter Quality PLRM. CSG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T074927_C001 OCOG Altimeter Range Quality PLRM. CSG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T084535_20230313T085029_C001 OCOG Altimeter Range Quality PLRM. CSG Backscatter Quality PLRM. CSG Backscatter Quality PLRM. CSG Backscatter Quality PLRM. CSG Backscatter Quality PLRM. CSG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20230313T044802_20230313T045030_C001		
OCOG Backscatter Quality CS_OFFL_SIR_GOPN_2_20230313T053747_20230313T053951_CO01 CS_OFFL_SIR_GOPN_2_20230313T060427_20230313T060740_CO01 CS_OFFL_SIR_GOPN_2_20230313T060427_20230313T060740_CO01 CS_OFFL_SIR_GOPN_2_20230313T060427_20230313T060740_CO01 CS_OFFL_SIR_GOPN_2_20230313T06033_20230313T060740_CO01 CS_OFFL_SIR_GOPN_2_20230313T06033_20230313T060760_CO01 CS_OFFL_SIR_GOPN_2_20230313T06033_20230313T060760_CO01 CS_OFFL_SIR_GOPN_2_20230313T060340_20230313T060760_CO01 CS_OFFL_SIR_GOPN_2_20230313T060340_20230313T062837_CO01 CS_OFFL_SIR_GOPN_2_20230313T062340_20230313T062837_CO01 CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_CO01 CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T074827_CO01 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074827_CO01 CCG_Altimeter Range Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T074822_20230313T074827_CO01 CCG_Altimeter Range Ouality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T074822_20230313T074827_CO01 CCG_Altimeter Range Quality PLRM, COCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T074822_20230313T085029_CO01 CCG_Altimeter Range Quality PLRM, COCG_Altimeter Range Coulity Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T0846455_20230313T085029_CO01 CCG_Altimeter Range Coulity PLRM, COCG_Altimeter Range SNA_SWH and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T103442_20230313T108505_CO01 CCG_Altimeter Range Coulity PLRM, COCG_Altimeter Range SNA_SWH and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T1074542_20230313T108505_CO01 CCG_Altimeter Range and Backscatter Quality PLRM, COCG_Altimeter Range SNA_SWH and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPN_2_20230313T107454_2023	CS_OFFL_SIR_GOPN_2_20230313T045227_20230313T045349_C001		
and Backscatter Quality PLRM, COCG Allmeter Range and Backscatter Quality PLRM, COCG Allmeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPN_2_20230313T060427_20230313T060740_C001 CS_OFFL_SIR_GOPN_2_20230313T060427_20230313T060740_C001 CS_OFFL_SIR_GOPN_2_20230313T060433_20230313T060956_C001 CS_OFFL_SIR_GOPN_2_20230313T060833_20230313T060956_C001 CS_OFFL_SIR_GOPN_2_20230313T060833_20230313T060956_C001 CS_OFFL_SIR_GOPN_2_20230313T060833_20230313T060956_C001 CS_OFFL_SIR_GOPN_2_20230313T062349_20230313T062837_C001 CS_OFFL_SIR_GOPN_2_20230313T062349_20230313T062837_C001 CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_C001 CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_C001 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084645_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084712_20230313T1085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084712_20230313T1085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1084645_20230313T108505_C001 CS_OFFL_SIR_GOPN_2	CS_OFFL_SIR_GOPN_2_20230313T050710_20230313T051001_C001	OCOG Backscatter Quality	
OCG Backscatter Quality PLRM, OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM, OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and	CS_OFFL_SIR_GOPN_2_20230313T053747_20230313T053951_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20230313T062349_20230313T062837_C001 CS_OFFL_SIR_GOPN_2_20230313T062349_20230313T062837_C001 CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_C001 CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_C001 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T1093712_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10948_20230313T10850_C001 CS_OFFL_SIR_	CS_OFFL_SIR_GOPN_2_20230313T060427_20230313T060740_C001		
CS_OFFL_SIR_GOPN_2_20230313T062349_20230313T062837_C001 And Backscatter Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_C001 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T1084635_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T1084635_20230313T108505_C001 CS_OFFL_SIR_GOPN_2_20230313T108464_20230313T108505_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T10865_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T10865_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CCGG Altimeter Range Quality PLRM, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGG Altimeter Range and Backscatter Quality Flags have be	CS_OFFL_SIR_GOPN_2_20230313T060833_20230313T060956_C001		
CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10866_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10850_2001 CS_OFFL_SIR_GOPN_2_20230313T10708_20230313T10850	CS_OFFL_SIR_GOPN_2_20230313T062349_20230313T062837_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CCG_Altimeter Range Quality PLRM, OCOG_Altimeter Range and Backscatter Quality Plags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10850_C001 CCG_Altimeter Range Quality PLRM, OCOG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCG_Altimeter Range and Backscatter Quality PLRM, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_Altimeter Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_GOPN_2_20230313T071012_20230313T071112_C001		
OCOG Backscatter Quality CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T110856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T110856_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T	CS_OFFL_SIR_GOPN_2_20230313T074822_20230313T074927_C001		
CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T10718_20230313T10856_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocoa Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230313T084635_20230313T085029_C001	OCOG Backscatter Quality	
CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPN_2_20230313T110718_20230313T110856_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocog 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 have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230313T093712_20230313T093719_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality OCOG 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 OCOG 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 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230313T103454_20230313T103605_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPN_2_20230313T110718_20230313T110856_C001	OCOG Backscatter Quality	
	CS_OFFL_SIR_GOPN_2_20230313T120408_20230313T120820_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPN_2_20230313T125330_20230313T125731_C001		· · ·

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20230313T135145_20230313T135329_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20230313T142954_20230313T143133_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_20230313T154718_20230313T154824_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_20230313T160939_20230313T161237_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_20230313T161331_20230313T161544_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_20230313T165955_20230313T170149_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_20230313T170837_20230313T171317_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_20230313T175014_20230313T175408_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_20230313T194222_20230313T194236_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_20230313T194316_20230313T194347_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_20230313T202857_20230313T203031_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_20230313T211739_20230313T211803_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_20230313T213913_20230313T214247_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_20230313T225707_20230313T225730_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_20230313T225741_20230313T225803_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_20230313T225957_20230313T230106_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_20230313T230519_20230313T230542_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_20230313T231715_20230313T231825_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_20230313T233819_20230313T233941_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_20230313T234451_20230313T234800_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_20230313T011421_20230313T011616_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_20230313T011847_20230313T012011_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_20230313T012020_20230313T012508_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_20230313T012508_20230313T012633_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_20230313T012656_20230313T012814_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_20230313T020644_20230313T020958_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_20230313T025240_20230313T025258_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_GOPR_2_20230313T025318_20230313T025343_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_GOPR_2_20230313T025811_20230313T030353_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T032731_20230313T032944_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_GOPR_2_20230313T040725_20230313T040832_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for o more records
CS_OFFL_SIR_GOPR_2_20230313T043843_20230313T043929_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T044126_20230313T044435_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T044647_20230313T044802_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T061656_20230313T062349_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T075852_20230313T080416_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T093215_20230313T093325_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPR_2_20230313T093621_20230313T093712_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T093719_20230313T093734_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20230313T093801_20230313T094554_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 Fand the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T104353_20230313T104638_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPR_2_20230313T110920_20230313T111055_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T111625_20230313T112540_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T112549_20230313T112630_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T112641_20230313T112902_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T125731_20230313T130446_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T134852_20230313T134858_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20230313T143629_20230313T144209_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T144659_20230313T144823_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omer records
CS_OFFL_SIR_GOPR_2_20230313T150259_20230313T150339_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPR_2_20230313T153159_20230313T153700_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20230313T155125_20230313T155336_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records

CS_OFFL_SIR_GOPR_2_20230313T160451_20230313T160647_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_20230313T161237_20230313T161331_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_20230313T161544_20230313T162232_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_20230313T163621_20230313T164041_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_20230313T164325_20230313T164503_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_20230313T175408_20230313T175926_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_20230313T180000_20230313T180110_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_20230313T193224_20230313T194221_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_20230313T210818_20230313T210854_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_20230313T211003_20230313T211738_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 (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:

105

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

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.

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20230312T234455_20230313T003433_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_2_20230313T003433_20230313T012410_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_220230313T012410_20230313T021348_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T021348_20230313T030324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T030324_20230313T035302_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230313T035302_20230313T044239_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T044239_20230313T053217_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_220230313T053217_20230313T062154_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T062154_20230313T071132_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T071132_20230313T080108_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T080108_20230313T085047_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20230313T085047_20230313T094023_C001	, GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	#N/A
CS_OFFL_SIR_GOP_2_20230313T094023_20230313T103001_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T103001_20230313T111938_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230313T111938_20230313T120916_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_220230313T120916_20230313T125852_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230313T125852_20230313T134831_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T134831_20230313T143807_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T143807_20230313T152745_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T152745_20230313T161722_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230313T161722_20230313T170700_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T170700_20230313T175637_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230313T175637_20230313T184615_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T184615_20230313T193551_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T193551_20230313T202530_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T202530_20230313T211506_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T211506_20230313T220444_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T220444_20230313T225421_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T225421_20230313T234359_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230313T234359_20230314T003335_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

6.5 P2P Measurement Confidence Data Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors: 3

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	200	200	6	194	0
SIR_GOPR1B	151	151	0	151	0
SIR_GOPN1B	115	115	1	114	0
SIR_GOPM_2	200	200	142	58	0
SIR_GOPR_2	151	151	78	72	1
SIR_GOPN_2	115	115	42	73	0
SIR GOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

2

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_GOPR_2	1	1	1	1	1	1					
•											
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

Test Description Key:									
Abbreviation	Test name	Details							
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7							
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6							
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7							
RLOBOPNCDF	RangeLongitudeOrBlankOP 7NetCDF	Longitude should be between -180E7 and 180E7							

7.2 QCC Warnings

Number of QCC reports with warnings

2157

Total number of occurrences of each warning

Total name of occurrence of out marring							
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	194	0	0	0	0	0	0
SIR_GOPM_2	0	0	41	47	0	41	0
SIR_GOPN1B	111	0	0	0	0	0	0
SIR_GOPN_2	0	0	12	31	8	28	28
SIR_GOPR1B	145	0	0	0	0	0	0
SIR_GOPR_2	0	1	22	37	2	26	18

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	33	36	0	0	0	0	28
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	19	0	0	12	0	31	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	13	0	36	0	41	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	5	30	0	5	33
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	19	22	48	60	31	32
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	37	0	6	59	22	8	19

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	•
SIR_GOPM1B	0	0	0	0	0		
SIR_GOPM_2	0	3	0	0	0		
SIR_GOPN1B	0	0	0	45	1		
SIR_GOPN_2	30	8	1	0	0		
SIR_GOPR1B	0	0	0	151	12		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	16	28	29	9	29	15	28
	•	,	,		•		,
Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOP_2_	12	26	19	19	29	17	25
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
SIR_GOP_2_	29	15	13	29			

0

3

Test Description Key:							
Abbreviation	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					
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					
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter					

7.3 Missing QCC Reports

SIR_GOPR_2 34

Number of products with missing QCC reports: