

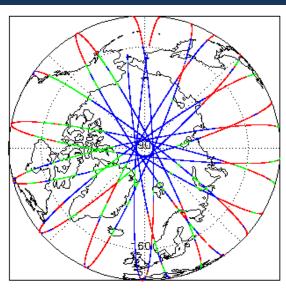
1. Overview

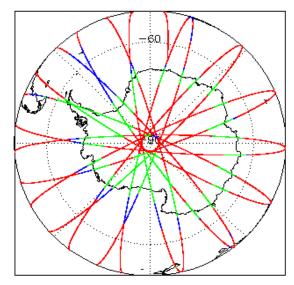
Report Production:	08-Apr-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

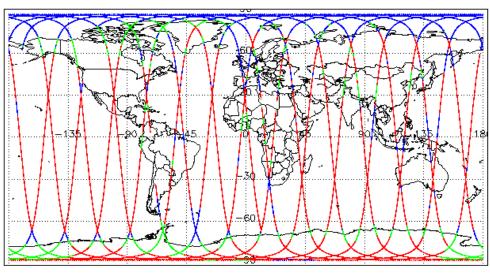
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

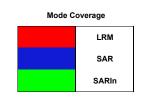
Mission / Instr	ument News
05-Mar-2021	None
06-Mar-2021	None
07-Mar-2021	Nothing planned

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 binary product file (.DBL).

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

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:

0

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:

16

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210306T002306_20210306T002805_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210306T151557_20210306T152236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T035718_20210306T040002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T045246_20210306T045851_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T053425_20210306T053846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T171723_20210306T171934_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T185637_20210306T190124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T203122_20210306T203138_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210306T212910_20210306T213036_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T003014_20210306T003316_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T003316_20210306T004021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T050114_20210306T050350_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T071709_20210306T072547_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T111127_20210306T111339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T221010_20210306T221021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210306T234747_20210306T235830_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 binary product file (.DBL).

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 which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Number of products with errors:

Product Test Failed Description	ct	Test Failed	Description
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County of the Co		T-	
Transpector health facilitation (see more manufacture) Obj. OFFIL BIRL, COMPLET 2021/0000/0000471 (2021/0000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20210306T220707_20210306T220750_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
COLORD SINGLAND COLORD STATES AND ADMINISTRATION OF THE PROPERTY OF THE PROPER	CS_OFFL_SIR_GOPN_2_20210306T004021_20210306T004131_C001	. //	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Comparignment Comparignmen	CS_OFFL_SIR_GOPN_2_20210306T013711_20210306T013819_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Tapagraphy (1) Tapagraphy (2) Tapagraphy (2) Tapagraphy (3) Tapagraphy (3)	CS_OFFL_SIR_GOPN_2_20210306T021935_20210306T022047_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topic part Topic Topic part Topic pa	CS_OFFL_SIR_GOPN_2_20210306T031416_20210306T031604_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Asset Dynamic Topography (1) Asset Dynamic Topography (2) Asset Dynamic Topography (1) Asset See Surface (1), Mean Dynamic Topogr	CS_OFFL_SIR_GOPN_2_20210306T035718_20210306T040002_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Toggraphy (1) There is a error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is a error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is a error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is a error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is a error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is a error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (outcom) (1) for once records There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) There is an error with the Mean Oppramic Toggraphy (1) Toggraphy (1) (1) There is an error with the Mean Oppramic Tog	CS_OFFL_SIR_GOPN_2_20210306T045246_20210306T045851_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Sec. OFFL_SIR_GOPN_2_20210066T09322_2021006T091720_C001 Mean Dynamic Toography (1) Throe is an error with the Mean Dynamic Topography (20 critical Prography (20 critical Prograp	CS_OFFL_SIR_GOPN_2_20210306T053425_20210306T053846_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Openanic Topography (1) Decision Research	CS_OFFL_SIR_GOPN_2_20210306T062321_20210306T062558_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Manual Dynamic Topography (all Control Topography (a	CS_OFFL_SIR_GOPN_2_20210306T063223_20210306T063533_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210306T108242_20210306T102840_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or or more records CS_OFFL_SIR_GOPN_2_20210306T10205_20210306T110206_20210306T10205_20210306T10205_20210306T101102_20210306T10205_20210306T101102_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T101010_20210306T10101	CS_OFFL_SIR_GOPN_2_20210306T071321_20210306T071709_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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CS_OFFL_SIR_GOPN_2_20210306T13207_20210306T13215_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (2) Mean Sea Surface (1), Mean Dynamic Topography (3) Mean Sea Surface (1), Mean Dynamic Topography (4) Mean Sea Surface (1), Mean Dynamic Topography (5) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (5) There is an error with the Mean Dynamic Topography (5) There is an error with the Mean Dynamic Topography (5) There is an error with the Mean Dynamic Topography (5) Mean Dynamic Topography (1) Mean Sea Su	CS_OFFL_SIR_GOPN_2_20210306T084824_20210306T085403_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Topography (1) CS_OFFL_SIR_GOPN_2_20210306T130205_20210306T130439_C001 Mean Sea Surface (1), Mean Dynamic Topography (2) CS_OFFL_SIR_GOPN_2_20210306T130808_20210306T131142_C001 Mean Sea Surface (1), Mean Dynamic Topography (2) Topography (3) Mean Sea Surface (1), Mean Dynamic Topography (3) Topography (3) Mean Sea Surface (1), Mean Dynamic Topography (4) Topography (4) Mean Sea Surface (1), Mean Dynamic Topography (4) Topography (5) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (4) Topography (4) Mean Sea Surface (1), Mean Dynamic Topography (4) Topography (6) Topography (7) Mean Sea Surface (1), Mean Dynamic Topography (8) Topography (8) Topography (8) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (6) Topography (7) Topography (8) Topography (8) Mean Sea Surface (1), Mean Dynamic Topography (8) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (8) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) 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) for 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) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topo	CS_OFFL_SIR_GOPN_2_20210306T112221_20210306T112346_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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CS_OFFL_SIR_GOPN_2_20210306T144246_20210306T144521_C001 CS_OFFL_SIR_GOPN_2_20210306T144246_20210306T144521_C001 CS_OFFL_SIR_GOPN_2_20210306T161818_20210306T162407_C001 CS_OFFL_SIR_GOPN_2_20210306T161818_20210306T17319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 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 There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20210306T18038_20210306T181242_C001 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 Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_GOPN_2_20210306T18033_20210306T181242_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) for or more records CS_OFFL_SIR_GOPN_2_20210306T21923_20210306T212317_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (CGVI),	CS_OFFL_SIR_GOPN_2_20210306T130205_20210306T130439_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
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CS_OFFL_SIR_GOPN_2_20210306T163752_20210306T162407_C001 CS_OFFL_SIR_GOPN_2_20210306T161818_20210306T162407_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Mean Sas Surface (1), Mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) 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 (3) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (3) There is an error with the MSS height (solution 1) for or more records Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for or more records Mean Sea Surface (1), Mean Dynamic Topography (3) There is an error with the Mean Dynamic Topography (3) There is an error with the Mean Dynamic Topography (4) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (2) There is an error with the Mea	CS_OFFL_SIR_GOPN_2_20210306T144246_20210306T144521_C001	Topography (1)	
Topography (1) Topography (2) Topography (2) Topography (3) Topography (4) Topography (5) 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 (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) 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 (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Total Geocentric Coean Tide (ES), Mon-Equilibrium Long Period Coean Tide	CS_OFFL_SIR_GOPN_2_20210306T153752_20210306T153914_C001	Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_GOPN_2_20210306T171723_20210306T180153_C001 Mean Dynamic Topography (1) Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for or or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or or more records Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for or or more records There is an error with the Mean Dynamic Topography (solution 1) for or or more records Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1) Topography (1) Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES) Non-Equilibrium Long Period Cocen Tide (FES) Non-Equilibriu	CS_OFFL_SIR_GOPN_2_20210306T161818_20210306T162407_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography (1) Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for or more records There is an error with the Mean Dynamic Topography (solution 1) for or more records There is an error with the Mean Dynamic Topography (solution 1) for or more records There is an error with the Mean Dynamic Topography (solution 1) for or more records There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Cocean Tide (FES), Non-Equilibrium Long Period Cocean Tide (FES), Non-Equilibrium Long Period Cocean Tide (FES) and the Non-Equilibrium Long Period Cocean Tide (SOT). CS_OFFL_SIR_GOPN_2_20210306T225912_20210306T234258_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOT). Total Geocentric Ocean Tide (SOT). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (SOT). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (SOT). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (SOT). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Tide (SOT) 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). 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 wi	CS_OFFL_SIR_GOPN_2_20210306T171220_20210306T171319_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
or more records Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for or more records Mean Sea Surface (1), Mean Dynamic Topography (esolution 1) for or more records Mean Sea Surface (1), Mean Dynamic Topography (esolution 1) for or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (file). 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_20210306T0404002_20210306T040720_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography heig	CS_OFFL_SIR_GOPN_2_20210306T171723_20210306T171934_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210306T185637_20210306T190124_C001 Mean Sea Surface (1), 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) 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 height (solution 1) for one or more records CS_OFFL_SIR_GOPR_2_20210306T024047_20210306T022800_C001 Mean Sea Surface (1), 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 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 height (solution 1) for one or more records	CS_OFFL_SIR_GOPN_2_20210306T180012_20210306T180153_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
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) and the Non-Equilibrium Long Period Cocan Tide CS_OFFL_SIR_GOPN_2_20210306T225912_20210306T230225_C001 CS_OFFL_SIR_GOPN_2_20210306T234343_20210306T234508_C001 CS_OFFL_SIR_GOPN_2_20210306T04131_20210306T05025_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Cocan Tide (FES) and the Non-Equ	CS_OFFL_SIR_GOPN_2_20210306T181036_20210306T181242_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	CS_OFFL_SIR_GOPN_2_20210306T185637_20210306T190124_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography (1) and the Mean Dynamic Topography (1) Topography height (solution 1) for one or more records Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1: GOT) 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) 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 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	CS_OFFL_SIR_GOPN_2_20210306T211923_20210306T212317_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20210306T004131_20210306T005025_C001 CS_OFFL_SIR_GOPR_2_20210306T002047_20210306T0022800_C001 CS_OFFL_SIR_GOPR_2_20210306T022047_20210306T022800_C001 CS_OFFL_SIR_GOPR_2_20210306T022047_20210306T022800_C001 CS_OFFL_SIR_GOPR_2_20210306T022047_20210306T022800_C001 CS_OFFL_SIR_GOPR_2_20210306T02047_20210306T022800_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 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) 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	CS_OFFL_SIR_GOPN_2_20210306T225912_20210306T230225_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (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	CS_OFFL_SIR_GOPN_2_20210306T234343_20210306T234508_C001		There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Topography (1) Topography height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOPR_2_20210306T004131_20210306T005025_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1) Mean Dynamic. There is an error with the MSS height (solution 1) and the Mean Dynamic.	CS_OFFL_SIR_GOPR_2_20210306T022047_20210306T022800_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Topography (1) Topography height (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20210306T053846_20210306T054554_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_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_20210306T085403_20210306T090142_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_20210306T103336_20210306T103959_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_20210306T103959_20210306T104307_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_20210306T121159_20210306T121859_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_20210306T121859_20210306T122036_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_20210306T135308_20210306T135757_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_20210306T135757_20210306T135920_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_20210306T153108_20210306T153630_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_20210306T153630_20210306T153752_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_20210306T171320_20210306T171413_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_20210306T171413_20210306T171723_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_20210306T184907_20210306T184942_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20210306T184942_20210306T185637_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_20210306T203139_20210306T203705_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_20210306T215955_20210306T220143_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_20210306T221048_20210306T221841_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_20210306T234747_20210306T235830_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 (20Hz)

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_20210305T235949_20210306T001951_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_20210306T005130_20210306T011345_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_20210306T011422_20210306T012523_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_20210306T013301_20210306T013308_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_20210306T013311_20210306T013711_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_20210306T013907_20210306T020804_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_20210306T020820_20210306T021533_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_20210306T023406_20210306T024230_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_20210306T024711_20210306T024827_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_20210306T024844_20210306T030024_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_20210306T030057_20210306T030454_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_20210306T030635_20210306T031154_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_20210306T032254_20210306T033531_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_20210306T033745_20210306T034931_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_20210306T035222_20210306T035351_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_20210306T041703_20210306T042606_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_20210306T042609_20210306T042634_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_20210306T042910_20210306T044411_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_20210306T044601_20210306T045106_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_20210306T045130_20210306T045246_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_20210306T045938_20210306T050034_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_20210306T051806_20210306T052123_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_20210306T052246_20210306T052635_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_20210306T060608_20210306T062320_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_20210306T062558_20210306T063023_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_20210306T063622_20210306T070107_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_20210306T072547_20210306T072701_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_20210306T073647_20210306T080301_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_20210306T080417_20210306T080938_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_20210306T080945_20210306T081310_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_20210306T081530_20210306T084344_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_20210306T084510_20210306T084824_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_20210306T092013_20210306T094233_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_20210306T094406_20210306T095217_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_20210306T095446_20210306T102951_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_20210306T111339_20210306T112205_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_20210306T112347_20210306T112907_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_20210306T113436_20210306T115717_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_20210306T120003_20210306T120918_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_20210306T122135_20210306T122535_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_20210306T124123_20210306T124609_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_20210306T124757_20210306T130115_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_20210306T130439_20210306T130807_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_20210306T131401_20210306T132005_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_20210306T132015_20210306T134609_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_20210306T140426_20210306T141126_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_20210306T141150_20210306T143545_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_20210306T145002_20210306T145151_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_20210306T145348_20210306T150000_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_20210306T151048_20210306T151138_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_20210306T151557_20210306T152236_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_20210306T153914_20210306T154330_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_20210306T154444_20210306T154733_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_20210306T154834_20210306T155035_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_20210306T155050_20210306T155824_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_20210306T155853_20210306T160018_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_20210306T160638_20210306T161817_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_20210306T162701_20210306T163124_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_20210306T163303_20210306T164014_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_20210306T164058_20210306T164807_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_20210306T165106_20210306T170357_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_20210306T172636_20210306T172949_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_20210306T173121_20210306T173346_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_20210306T173509_20210306T173957_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_20210306T174240_20210306T175922_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_20210306T180154_20210306T181035_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_20210306T181254_20210306T183524_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_20210306T184353_20210306T184605_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_20210306T191422_20210306T193842_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_20210306T194400_20210306T194831_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_20210306T195112_20210306T202110_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_20210306T204947_20210306T211805_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_20210306T212318_20210306T212910_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_20210306T213036_20210306T215143_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_20210306T215206_20210306T215747_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_20210306T220330_20210306T220501_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_20210306T222136_20210306T225642_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_20210306T230225_20210306T230742_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_20210306T230921_20210306T231223_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_20210306T231423_20210306T231650_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_20210306T234508_20210306T234747_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210306T031416_20210306T031604_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210306T135920_20210306T135945_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210306T140052_20210306T140120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210306T145151_20210306T145340_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPN_2_20210306T184605_20210306T184623_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210306T232627_20210306T232657_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210306T103139_20210306T103202_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210306T105406_20210306T105442_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210306T183646_20210306T183714_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 (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20210306T031416_20210306T031604_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_20210306T041318_20210306T041703_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_20210306T045246_20210306T045851_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_20210306T053425_20210306T053846_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_20210306T062321_20210306T062558_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_20210306T063223_20210306T063533_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_20210306T071118_20210306T071241_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_20210306T073257_20210306T073647_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_20210306T084824_20210306T085403_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_20210306T102952_20210306T103127_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_20210306T105203_20210306T105406_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_20210306T112907_20210306T113215_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_20210306T123753_20210306T124123_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_20210306T130205_20210306T130439_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_20210306T140052_20210306T140120_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_20210306T144715_20210306T145002_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_20210306T153752_20210306T153914_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_20210306T154331_20210306T154440_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_20210306T160532_20210306T160638_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

COLOR SINGLE AND COLOR	CS_OFFL_SIR_GOPN_2_20210306T161818_20210306T162407_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_OFF_SIR_COPF_2RETOOM 19600_20210000119000_0001 CS_OFF_SIR_COPF_2RETOOM 19600_20210000119000_0001 CS_OFF_SIR_COPF_2RETOOM 19600_20210000119000_0001 CS_OFF_SIR_COPF_2RETOOM 19600_2021000011901000000000000000000000000	CS_OFFL_SIR_GOPN_2_20210306T171723_20210306T171934_C001		
Co. OPT. SRI, COPY 2 2010200110402 201020110402 COPY Copy 1 2010200110402 COPY Copy 1 2010200110404 COPY Copy 1 2010200110404 COPY Copy 1 2010200110404 COPY Copy 1 2010200110404 COPY C	CS_OFFL_SIR_GOPN_2_20210306T184120_20210306T184245_C001		
CIS_OFFL_SIR_GOPR_2_2010000T16409_2010000T104131_CID00 CIS_OFFL_SIR_GOPR_2_2010000T16409_2010000T104131_CID00 CIS_OFFL_SIR_GOPR_2_2010000T16409_2010000T10000T10000T_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_2010000T10000T_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T120000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T100000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T100000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T1000000_CID000 CIS_OFFL_SIR_GOPR_2_2010000T16409_20110000T100000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20210306T184605_20210306T184623_C001		, ,
CS_OFFL_SRR_COPR_2_28210000T03122_X2210081T03812_0001 CS_OFFL_SRR_COPR_2_28210000T03122_X2210081T03812_0001 CS_OFFL_SRR_COPR_2_28210000T020042_X2210081T03812_0001 CS_OFFL_SRR_COPR_2_28210000T020004_X2210081T03812_0001 CS_OFFL_SRR_COPR_2_28210000T02004_X2210081T03812_0001 CS_OFFL_SRR_COPR_2_28210000T02004	CS_OFFL_SIR_GOPN_2_20210306T185637_20210306T190124_C001		
CS_OFFL_SR_GOPFL_2.021008T02049_001108T02049_00110	CS_OFFL_SIR_GOPN_2_20210306T194300_20210306T194400_C001		
CG_GFIL_SIR_GOPN 2_20210360722103_202103607221046_C001 CG_GFIL_SIR_GOPN 2_20210360722103_202103607221046_C001 CG_GFIL_SIR_GOPN 2_20210360722103_202103607221046_C001 CG_GFIL_SIR_GOPN 2_20210360722103_202103607221046_C001 CG_GFIL_SIR_GOPN 2_20210360723103_202103607221046_C001 CG_GFIL_SIR_GOPN 2_20210360723103_202103607231046_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360704021_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360704021_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360704021_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360703406_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360703406_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360703406_C001 CG_GFIL_SIR_GOPN 2_20210360703316_70210360703406_C001 CG_GFIL_SIR_GOPN 2_20210360703333_C001 CG_GFIL_SIR_GOPN 2_20210360703333_C0010000000	CS_OFFL_SIR_GOPN_2_20210306T203122_20210306T203138_C001	9	
OCCG Backscatter Challey CS_OFFL_SR_COPPL_7/02/1036T22102_702/1030T23148_CO01 CS_OFFL_SR_COPPL_7/02/1036T23102_702/1030T23148_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03418_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03418_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03418_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03418_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03400_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03400_CO01 CS_OFFL_SR_COPPL_7/02/1036T03310_702/1030T03400_CO01 CS_OFFL_SR_COPPL_7/02/1036T023010_702/1030T03400_CO01 CS_OFFL_SR_COPPL_7/02/1036T033332_C001 CS_OFFL_SR_COPPR_7/02/1036T033332_C001 CS_OFFL_SR_COPPR_7/02/10	CS_OFFL_SIR_GOPN_2_20210306T220549_20210306T220628_C001		
and Backscatter Caulity PERM. COCO Allmeter Range and Backscatter Caulity PERM. COCO Co. OFFI_SIR_GOPN_2_202103067234004_202103067234148_C001 CS_OFFI_SIR_GOPN_2_202103067034004_202103067001021_C001 CS_OFFI_SIR_GOPN_2_202103067034004_202103067001021_C001 CS_OFFI_SIR_GOPN_2_20210306703416_202103067001021_C001 CS_OFFI_SIR_GOPR_2_202103067004131_202103067001022_C001 CS_OFFI_SIR_GOPR_2_202103067004131_202103067004022_C001 CS_OFFI_SIR_GOPR_2_202103067004031_202103067004022_C001 CS_OFFI_SIR_GOPR_2_202103067020047_202103067004024 CS_OFFI_SIR_GOPR_2_202103067020047_202103067023006_C001 CS_OFFI_SIR_GOPR_2_20210306702006_202103067023045_C001 CS_OFFI_SIR_GOPR_2_20210306702006_202103067023045_C001 CS_OFFI_SIR_GOPR_2_202103067033532_202103067033745_C001 CS_OFFI_SIR_GOPR_2_202103067033745_C001 CS_OFFI_SIR_G	CS_OFFL_SIR_GOPN_2_20210306T220750_20210306T220810_C001		
OCG Backscatter Quality PLRM. OCG Allimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T0040131_20210306T004025_C001 CS_OFFL_SIR_GOPR_2_20210306T0040131_20210306T005055_C001 CS_OFFL_SIR_GOPR_2_20210306T002047_20210306T002000_C001 CS_OFFL_SIR_GOPR_2_20210306T002000_C00100000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20210306T221023_20210306T221048_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 PLRM, COCA Affirmeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags and the OCOG Affirmeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Affirmeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Affirmeter Range. SSHA, SWH and Backscatter Quality PLRM. OCOG Affirmeter Range and Backscatter Quality PLRM. OCOG Backscatter Quality	CS_OFFL_SIR_GOPN_2_20210306T234004_20210306T234148_C001		
CS_OFFL_SIR_GOPR_2_20210306T004131_20210306T005025_C001 Allender Range and Backscatter Quality PLRM. CS_OFFL_SIR_GOPR_2_20210306T022047_20210306T022800_C001 CS_OFFL_SIR_GOPR_2_20210306T023088_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023088_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023088_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023088_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023088_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T033535_20210306T033745_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T053318_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053118_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053119_20210306T065335_C001 CS_OFFL_SIR_GOPR_2_20210306T053119_20210306T065335_C001 CS_OFFL_SIR_GOPR_2_20210306T053119_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T065448_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T065448_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T065448_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T065448_20210306T000006_C001 CS_OFFL_SIR_GOPR_2_20210306T000158_20210306T000006_C001 CS_OF	CS_OFFL_SIR_GOPR_2_20210306T003316_20210306T004021_C001		
GS_OFFL_SIR_GOPR_2_20210306T023047_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023008_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023008_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T023008_20210306T023406_C001 CS_OFFL_SIR_GOPR_2_20210306T033332_20210306T033745_C001 CS_OFFL_SIR_GOPR_2_20210306T033332_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T053319_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053319_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053346_20210306T053355_C001 CS_OFFL_SIR_GOPR_2_20210306T053846_20210306T05454_C001 CS_OFFL_SIR_GOPR_2_20210306T053846_20210306T05454_C001 CS_OFFL_SIR_GOPR_2_20210306T053846_20210306T07547_C001 CS_OFFL_SIR_GOPR_2_20210306T05303_2011006T09142_C001 CS_OFFL_SIR_GOPR_2_20210306T05303_2011006T09158_20210306T070547_C001 CS_OFFL_SIR_GOPR_2_20210306T05303_2011006T09142_C001 CS_OFFL_SIR_GOPR_2_20210306T0580403_20210306T070547_C001 CS_OFFL_SIR_GOPR_2_20210306T0580403_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T09548_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T09548_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T09548_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T09548_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T09548_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T09048_20210306T090608_C001 CS_OF	CS_OFFL_SIR_GOPR_2_20210306T004131_20210306T005025_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_GOPR_2_20210306T033532_20210306T033745_C001 CS_OFFL_SIR_GOPR_2_20210306T033532_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001 CS_OFFL_SIR_GOPR_2_20210306T053319_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053319_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053319_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053319_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T053335_C001 CS_OFFL_SIR_GOPR_2_20210306T05403_20210306T06008_C001 CS_OFFL_SIR_GOPR_2_20210306T05403_20210306T0600310_C001 CS_OFFL_SIR_GOPR_2_20210306T065403_20210306T0600310_C001 CS_OFFL_SIR_GOPR_2_20210306T09142_C001 CS_OFFL_SIR_GOPR_2_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T090142_C0010 CS_OFFL_SIR_GOPR_2_20210306T090144_20210306T090142_C0010 CS_OFFL_SIR_GOPR_2_20210306T090148_20210306T090142_C0010 CS_OFFL_SIR_GOPR_2_20210306T090148_20210306T09014	CS_OFFL_SIR_GOPR_2_20210306T022047_20210306T022800_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Backscatter Quality PLRM. OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter Range Quality PLRM OCG Altimeter Range Altimeter Range Altimeter Range Quality PLRM OCG Altimeter Range Altimeter Range Quality PLRM OCG Altimeter Range Altimeter Range Quality PLRM OCG Altimeter Range Altimeter Range SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter Range SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter Range SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter Range Altimeter Range SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter Range SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter Range Altimeter Range SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range Altimeter	CS_OFFL_SIR_GOPR_2_20210306T023008_20210306T023406_C001		
CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_CO01 Allimeter Range and Backscatter Quality PLRM, COGG Allimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T053119_20210306T05335_CO01 CS_OFFL_SIR_GOPR_2_20210306T053846_20210306T054554_CO01 CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T066608_CO01 CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T066608_CO01 CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_CO01 CS_OFFL_SIR_GOPR_2_20210306T085403_20210306T090142_CO01 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090310_CO01 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090310_CO01 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090608_CO01 CS_OFFL_SIR_GOPR_2_20210306T090148_20210306T090608_CO01 CS_OFFL_SIR_GOPR_2	CS_OFFL_SIR_GOPR_2_20210306T033532_20210306T033745_C001		
CS_OFFL_SIR_GOPR_2_20210306T053119_20210306T053335_C001 Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality PLRM ocog Alimeter Range and Backscatter Quality PLRM ocog Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_	CS_OFFL_SIR_GOPR_2_20210306T040002_20210306T040720_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T060608_C001 CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_C001 CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_C001 CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_C001 CS_OFFL_SIR_GOPR_2_20210306T085403_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T0900160000000000000000000000000000000	CS_OFFL_SIR_GOPR_2_20210306T053119_20210306T053335_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCGG Backscatter Quality CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_C001 CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_C001 CS_OFFL_SIR_GOPR_2_20210306T085403_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T085403_20210306T090142_C001 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090310_C001 CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090310_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T0901111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T0901111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T0901111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T0901111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T0901111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DOCAD Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. DOCAD Altimeter Range and Backscatter Qu	CS_OFFL_SIR_GOPR_2_20210306T053846_20210306T054554_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 and Backscatter Quality PLRM, OCOG Altimeter 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. The Ocean Altimeter Range, SSHA, SWH 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. The Ocean Altimeter Range, SSHA, SWH 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. The Ocean Altimeter Range, SSHA, SWH 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. The Ocean Altimeter Range, SSHA, SWH 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. The Ocean 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.	CS_OFFL_SIR_GOPR_2_20210306T055937_20210306T060608_C001		
CS_OFFL_SIR_GOPR_2_20210306T095403_20210306T090142_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090310_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and 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 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_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Q	CS_OFFL_SIR_GOPR_2_20210306T071709_20210306T072547_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_C001 CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 The 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 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20210306T085403_20210306T090142_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_GOPR_2_20210306T090448_20210306T090608_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001 CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Range and Backscatter Quality Flags have been set for one or more records. The OCGA Range and Backscatter Quality Flags have been set for one or more records. The OCGA Range and Backscatter Quality Flags have been set for one or more records. The OCGA Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20210306T090158_20210306T090310_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 More records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Fl	CS_OFFL_SIR_GOPR_2_20210306T090448_20210306T090608_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_GOPR_2_20210306T103336_20210306T103959_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_GOPR_2_20210306T091111_20210306T091201_C001	OCOG Backscatter Quality	
PLRM Control of the	CS_OFFL_SIR_GOPR_2_20210306T103336_20210306T103959_C001	and Backscatter Quality PLRM, OCOG	

CS_OFFL_SIR_GOPR_2_20210306T103959_20210306T104307_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_20210306T120918_20210306T121135_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_20210306T121159_20210306T121859_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_20210306T134609_20210306T134655_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_20210306T134934_20210306T134938_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_20210306T135135_20210306T135258_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_20210306T143924_20210306T144246_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_20210306T150642_20210306T150927_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_20210306T153108_20210306T153630_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_20210306T171130_20210306T171220_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_20210306T171320_20210306T171413_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_20210306T171413_20210306T171723_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_20210306T175922_20210306T180012_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_20210306T183524_20210306T183611_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_20210306T202926_20210306T203122_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_20210306T203139_20210306T203705_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_20210306T215143_20210306T215206_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_20210306T215747_20210306T215845_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_20210306T220501_20210306T220548_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_20210306T220858_20210306T220958_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_20210306T221048_20210306T221841_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_20210306T221943_20210306T222011_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_20210306T231651_20210306T232011_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_20210306T234208_20210306T234342_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_20210306T234747_20210306T235830_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_20210306T235925_20210307T000150_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
1.2 Overlifty Flores (4.11- 9.411- DI DM)		

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

200

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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 (20Hz, 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

157

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:

Ω

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 which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which 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.

Test Failed

- > 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

Product	Test Falled	Description
CS_OFFL_SIR_GOP_2_20210305T235326_20210306T004302_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210306T004302_20210306T013241_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_20210306T013241_20210306T022217_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_20210306T022217_20210306T031156_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_20210306T031156_20210306T040131_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_20210306T040131_20210306T045110_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_20210306T045110_20210306T054046_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_20210306T054046_20210306T063025_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_20210306T063025_20210306T072001_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_20210306T072001_20210306T080940_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_20210306T080940_20210306T085915_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_20210306T085915_20210306T094855_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_20210306T094855_20210306T103830_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_20210306T103830_20210306T112809_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_20210306T112809_20210306T121745_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_20210306T121745_20210306T130724_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_20210306T130724_20210306T135659_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_20210306T135659_20210306T144638_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_20210306T144638_20210306T153614_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_20210306T153614_20210306T162553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and 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_20210306T162553_20210306T171529_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_20210306T171529_20210306T180508_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_20210306T180508_20210306T185443_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and 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_20210306T185443_20210306T194422_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_20210306T194422_20210306T203358_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_20210306T203358_20210306T212337_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) and 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_20210306T212337_20210306T221313_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_20210306T221313_20210306T230252_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_20210306T230252_20210306T235227_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20210306T235227_20210307T004206_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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.

0

29

Number of products with errors:

P2P Quality Flags (20Hz 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 & 1Hz 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 (20Hz)

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: 2

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	197	197	2	195	0
SIR_GOPR1B	145	145	0	145	0
SIR_GOPN1B	108	108	2	106	0

SIR_GOPM_2	197	197	132	65	0
SIR_GOPR_2	145	145	55	88	2
SIR_GOPN_2	108	108	36	72	0
SIR_GOP_P2P	29	29	0	27	2

k	lumbor	of C	cc	reports	with	orrore:
n	lullibel	OI G	U	reports	with	enois.

Total number of	occurrences	٥f	each	error

					i otai ilullibei	or occurrences	or each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	•	-				-	-
SIR_GOP_2_	2	2	2	2							

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

7.2 QCC Warnings

Number of QCC reports with warnings

Total number	of occurrences	of each	warning

Does decad Torres	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
Product Type	BCSHNCDF	IOHHWOOK	MIVIOEPFUNCUF	MINIOEPINCDE	MIVIONCDF	RBSZUPUEPFUNCUF	RESZUPUEPFUPLKWINCL
SIR_GOPM1B	195	0	0	0	0	0	0
SIR_GOPM_2	0	0	47	45	0	44	0
SIR_GOPN1B	106	0	0	0	0	0	0
SIR_GOPN_2	0	0	14	31	3	31	33
SIR_GOPR1B	140	0	0	0	0	0	0
SIR GOPR 2	0	2	22	44	1	32	24

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	36	0	36	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	18	1	0	0	17	0	33
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	18	3	0	39	0	51	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	28	0	0	8	30	0	2
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	25	20	40	60	31
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	36	0	2	61	21	15

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_GOPM1B	0	0	0	1	1	0	0
SIR_GOPM_2	38	0	1	1	1	0	0
SIR_GOPN1B	0	0	0	0	0	0	47
SIR_GOPN_2	26	26	11	0	0	0	0
SIR_GOPR1B	0	0	0	0	0	0	145
SIR_GOPR_2	22	33	1	0	0	5	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	12	29	29	4	29	17	29

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	3	16	28	20	20	29	19
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF		
SIR_GOP_2_	26	29	17	9	29		

Test Description Key:	est 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						
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean						
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 decrees						
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 =						

RSSHAOFDPLRMNCD	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	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
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

Number of products with missing QCC reports: