

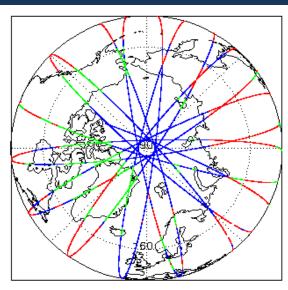
1. Overview

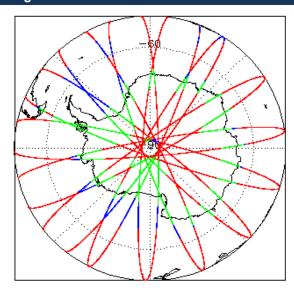
Report Production:	05-Mar-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

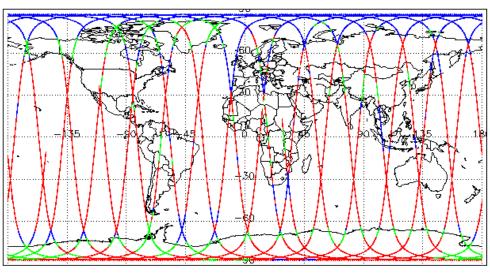
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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, 7.2 and 7.3

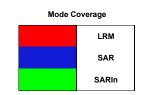
Miss	ion / Instru	ment News
03-1	Feb-2021	None
04-1	Feb-2021	None
05-I	Feb-2021	Nothing planned

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:

Ω

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4.6 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.

10

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20210204T024625_20210204T024933_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210204T060533_20210204T060747_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210204T160652_20210204T161113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210204T174835_20210204T175101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210204T200749_20210204T200940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210204T055706_20210204T055852_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210204T124746_20210204T125058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210204T175314_20210204T175650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210204T193048_20210204T193306_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210204T223444_20210204T224701_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:

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 Corection, 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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210204T093417_20210204T093553_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20210204T205559_20210204T205630_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20210204T215153_20210204T215608_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records

CS_OFFL_SIR_GOPM_2_20210204T215903_20210204T222620_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20210204T222622_20210204T222707_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20210204T222709_20210204T222710_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20210204T222714_20210204T222917_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20210204T223001_20210204T223134_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20210204T223207_20210204T223214_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20210204T223214_20210204T223444_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20210204T001821_20210204T002135_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T011813_20210204T011857_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_20210204T015707_20210204T020026_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T020552_20210204T020717_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_20210204T024625_20210204T024933_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_GOPN_2_20210204T034401_20210204T034540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T042734_20210204T042832_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T052143_20210204T052354_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T060533_20210204T060747_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T065202_20210204T065348_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_20210204T070033_20210204T070440_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T074216_20210204T074612_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_20210204T084138_20210204T084336_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_20210204T123746_20210204T124006_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_20210204T133014_20210204T133139_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T133650_20210204T133955_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), 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_GOPN_2_20210204T151044_20210204T151340_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T151553_20210204T152115_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T160023_20210204T160118_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_20210204T160652_20210204T161113_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), 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_GOPN_2_20210204T165030_20210204T165305_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T174548_20210204T174701_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T182322_20210204T182424_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_20210204T182533_20210204T183125_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_20210204T192511_20210204T192733_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_GOPN_2_20210204T200749_20210204T200940_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210204T210457_20210204T210930_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_20210204T214728_20210204T214906_C001	Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPN_2_20210204T215609_20210204T215903_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20210204T232722_20210204T233105_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_20210204T010828_20210204T011722_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_20210204T024933_20210204T025718_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_20210204T042832_20210204T043414_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_20210204T060747_20210204T061127_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_20210204T061127_20210204T061432_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_20210204T074612_20210204T075134_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_20210204T092435_20210204T093417_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_20210204T110157_20210204T110546_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_20210204T110546_20210204T110933_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_20210204T112003_20210204T112043_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_20210204T124047_20210204T124746_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_20210204T124746_20210204T125058_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_20210204T141932_20210204T142646_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_20210204T141932_20210204T142646_C001 CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001		
	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
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the 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
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001 CS_OFFL_SIR_GOPR_2_20210204T160541_20210204T160652_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001 CS_OFFL_SIR_GOPR_2_20210204T160541_20210204T160652_C001 CS_OFFL_SIR_GOPR_2_20210204T173915_20210204T174255_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001 CS_OFFL_SIR_GOPR_2_20210204T160541_20210204T160652_C001 CS_OFFL_SIR_GOPR_2_20210204T173915_20210204T174255_C001 CS_OFFL_SIR_GOPR_2_20210204T174255_20210204T174548_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001 CS_OFFL_SIR_GOPR_2_20210204T160541_20210204T160652_C001 CS_OFFL_SIR_GOPR_2_20210204T173915_20210204T174255_C001 CS_OFFL_SIR_GOPR_2_20210204T174255_20210204T174548_C001 CS_OFFL_SIR_GOPR_2_20210204T182244_20210204T182322_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Dynamic Topography (1)	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001 CS_OFFL_SIR_GOPR_2_20210204T160541_20210204T160652_C001 CS_OFFL_SIR_GOPR_2_20210204T173915_20210204T174255_C001 CS_OFFL_SIR_GOPR_2_20210204T174255_20210204T174548_C001 CS_OFFL_SIR_GOPR_2_20210204T182244_20210204T182322_C001 CS_OFFL_SIR_GOPR_2_20210204T182244_20210204T192511_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records 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_20210204T142646_20210204T143058_C001 CS_OFFL_SIR_GOPR_2_20210204T160118_20210204T160541_C001 CS_OFFL_SIR_GOPR_2_20210204T160541_20210204T160652_C001 CS_OFFL_SIR_GOPR_2_20210204T173915_20210204T174255_C001 CS_OFFL_SIR_GOPR_2_20210204T174255_20210204T174548_C001 CS_OFFL_SIR_GOPR_2_20210204T182244_20210204T182322_C001 CS_OFFL_SIR_GOPR_2_20210204T191858_20210204T192511_C001 CS_OFFL_SIR_GOPR_2_20210204T191858_20210204T192511_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Dynamic Topography (1)	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records

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)

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210203T234110_20210204T001543_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_20210204T002135_20210204T002656_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_20210204T002835_20210204T003154_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_20210204T003332_20210204T003455_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_20210204T004238_20210204T004607_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_20210204T010439_20210204T010719_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_20210204T012107_20210204T012940_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_20210204T013225_20210204T015506_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_20210204T020026_20210204T020139_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_20210204T020146_20210204T020552_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_20210204T020717_20210204T022059_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_20210204T022247_20210204T022854_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_20210204T025718_20210204T025741_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_20210204T025958_20210204T033331_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_20210204T033532_20210204T034038_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_20210204T034640_20210204T034843_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_20210204T035138_20210204T042235_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_20210204T043721_20210204T043727_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_20210204T044208_20210204T045023_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_20210204T045057_20210204T045552_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_20210204T045554_20210204T051249_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_20210204T051430_20210204T051937_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_20210204T052015_20210204T052143_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_20210204T052917_20210204T053916_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.

All COPPL_BIR_COPPL_2_20210094T06014_20210264T003092_001 CIR_OPPL_BIR_COPPL_2_20210094T06014_20210264T003092_001 CORD_ARRINGER Range_SEMA_SEMA_COPPL_2 20210094T06014_20210264T003092_001 CORD_ARRINGER Range_SEMA_SEMA_COPPL_2 20210094T06014_20210264T003092_001 CORD_ARRINGER Range_SEMA_SEMA_COPPL_2 20210094T06014_20210264T003092_001 CORD_ARRINGER Range_SEMA_SEMA_COPPL_2 20210094T06014_20210264T003092_001 CORD_ARRINGER Range_SEMA_SEMA_COPPL_2 20210094T000095_20210264T003092_001 CORD_ARRINGER Range_SEMA_SEMA_COPPL_2 20210094T000095_20210264T000095_20210264T000095_20210094T0	CS_OFFL_SIR_GOPM_2_20210204T054536_20210204T055706_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR_OFFL_SIR_COPM_2_20210264T003165_20210264T050346_20210264T050350_20210264T05	CS_OFFL_SIR_GOPM_2_20210204T062314_20210204T063523_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210094T098598_20210204T095989_2021004T095997_2001 CS_OFFL_SIR_GOPM_2_20210094T098599_20210204T095997_2001 CS_OFFL_SIR_GOPM_2_20210094T098599_20210204T095997_2001 CS_OFFL_SIR_GOPM_2_20210094T095999_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T09599_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T09599_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T09599_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T09599_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T09599_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T09599_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T095995_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T095995_20210204T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T095995_20210094T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T095995_20210094T095995_2001 CS_OFFL_SIR_GOPM_2_20210094T095995_2001009	CS_OFFL_SIR_GOPM_2_20210204T063703_20210204T065143_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T080802_20210001T070032_001 OCS_AFFL_SIR_GOPM_2_20210204T07808_20210001T07003_001 OCS_OFFL_SIR_GOPM_2_20210204T07808_20210001T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07808_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T07801_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T078012_20210201T07801_001 OCS_OFFL_SIR_GOPM_2_20210204T078012_20210201T08038_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080380_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T083806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T083806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T0803806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T080482_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T08049_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T08049_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T08049_20210204T080806_001 OCS_OFFL_SIR_GOPM_2_20210204T08049_20210204T080806_0			
Sackscater Cuality Ocean Allimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. The Ocean Allimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range sen Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range SSHA, SWH and Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range sen Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range sen Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range sen Backscater Quality Flags have been set for one or more records. Ocean Allimeter Range sen Backscater Quality Flags have been set for one or m			
and Backscarter Caulity, COCG Altimeter Range and Backscarter Caulity CoCG CS_OFFL_SIR_GOFM_2_20210204T072926_20210204T072915_CO01 CS_OFFL_SIR_GOFM_2_20210204T073045_20210204T073915_CO01 CS_OFFL_SIR_GOFM_2_20210204T073045_20210204T0739101 CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080159_CO01 CS_OFFL_SIR_GOFM_2_20210204T080405_CO01 CS_OFFL_SIR_GOFM_2_20210204T080405_CO01 CS_OFFL_SIR_GOFM_2_20210204T080405_CO01 CS_OFFL_SIR_GOFM_2_20210204T080405_CO01 CS_OFFL_SIR_GOFM_2_20210204T080405_CO01 CS_OFFL_SIR_GOFM_2_20210204T080405_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T080420_CO01 CS_OFFL_SIR_GOFM_2_20210204T101212_CO01 CS_OFFL_SIR_GOFM_2_20210204T101			
and Backscatter Quality, OCOG Allmeter Range and Backscatter Quality Flags have been selform or more records. CS_OFFL_SIR_GOPM_2_20210204T03045_20210204T03001_C001 CS_OFFL_SIR_GOPM_2_20210204T080105_20210204T080288_C001 CS_OFFL_SIR_GOPM_2_20210204T080105_20210204T080288_C001 CS_OFFL_SIR_GOPM_2_20210204T080005_20210204T080008_C001 CS_OFFL_SIR_GOPM_2_20210204T080005_20210204T080008_C001 CS_OFFL_SIR_GOPM_2_20210204T080005_20210204T083006_C001 CS_OFFL_SIR_GOPM_2_20210204T080005_20210204T083006_C001 CS_OFFL_SIR_GOPM_2_20210204T080420_20210204T083006_C001 CS_OFFL_SIR_GOPM_2_20210204T084431_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084431_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084431_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T08420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T0910422_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T10122_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T1012333_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T110133_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112056_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115075_C001	CS_OFFL_SIR_GOPM_2_20210204T070708_20210204T072622_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T080159_20210204T080288_C001 CS_OFFL_SIR_GOPM_2_20210204T080159_20210204T080288_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T080328_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083127_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083127_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083127_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083086_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083086_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083086_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083086_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T080806_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T080806_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T080806_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T080806_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T084420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T09420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T10590_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T10590_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T10590_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T10590_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T10590_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T10590_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102352_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102353_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102353_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102353_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102353_20210204T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102350_2021004T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102350_2021004T19500_C001 CS_OFFL_SIR_GOPM_2_20210204T1102350_2021004T19500_C001 CS_OFF	CS_OFFL_SIR_GOPM_2_20210204T072626_20210204T072915_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083127_C001 CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083806_C001 CS_OFFL_SIR_GOPM_2_20210204T083429_20210204T083806_C001 CS_OFFL_SIR_GOPM_2_20210204T08443_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084420_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T084420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T091037_C001 CS_OFFL_SIR_GOPM_2_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101056_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T10056_C001 CS_OFFL_SIR_GOPM_2_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T102053_20210204T100506_C001 CS_OFFL_SIR_GOPM_2_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T1102056_C001 CS	CS_OFFL_SIR_GOPM_2_20210204T073045_20210204T073901_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been at Interest Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T083429_20210204T083806_C001 CS_OFFL_SIR_GOPM_2_20210204T084413_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084413_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084413_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T09420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T101728_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T10728_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T10728_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T102053_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T114003_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115054_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115055_C	CS_OFFL_SIR_GOPM_2_20210204T080159_20210204T080238_C001		
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T084413_20210204T091054_C001 CS_OFFL_SIR_GOPM_2_20210204T084413_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101056_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T1157703_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T1157703_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T1157703_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T1157703_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T1157703_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T1157703_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_0021004T1157705_C001 CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20210204T080805_20210204T083127_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T10128_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T101283_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T10254_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T110213_20210204T1100000000000000000000000000000			
and Backscatter Quality Flags have been all for one or more records. CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001 CS_OFFL_SIR_GOPM_2_20210204T101728_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T101728_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T1120316_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_2		and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T101728_20210204T102056_C001 Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T102056_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T11403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T11403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T11403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T11021316_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T11021316_20210204T110010 CCG_OFFL_SIR_GOPM_2_20210204T110010 CCG_OFFL_SIR_GOPM_2_20210204T1100100 CCG_OFFL_SIR_GOPM_2_20210204T110010 CCG_OFFL_SIR_GOPM_2_20210	CS_OFFL_SIR_GOPM_2_20210204T094420_20210204T101037_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T1102016_20210204T110010 CS_OFFL_SIR_GOPM_2_20210204T110016_20210204T110010 CS_OFFL_SIR_GOPM_2_202102	CS_OFFL_SIR_GOPM_2_20210204T101212_20210204T101721_C001		
CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range 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 have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T120316_20210204T123703_C001 CS_OFFL_SIR_GOPM_2_20	CS_OFFL_SIR_GOPM_2_20210204T102353_20210204T105810_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T11502T_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T115213_20210204T115755_C001 CS_OFFL_SIR_GOPM_2_20210204T120316_20210204T123703_C001 CS_OFFL_	CS_OFFL_SIR_GOPM_2_20210204T112054_20210204T112700_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH Ocean Altimeter Range, SSHA, SWH Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20210204T114403_20210204T115027_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T120316_20210204T123703_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags			
	CS_OFFL_SIR_GOPM_2_20210204T120316_20210204T123703_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_GOPM_2_20210204T125058_20210204T125147_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T125632_20210204T125758_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_20210204T125632_20210204T125758_C001		
CS_OFFL_SIR_GOPM_2_20210204T131027_20210204T133014_C001 Ocean Altimeter Range, SSHA, SWH 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_20210204T131027_20210204T133014_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T134208_20210204T141712_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20210204T134208_20210204T141712_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T144127_20210204T144605_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20210204T144127_20210204T144605_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

Company		Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
Dept. 188 COPPL 2 325 (2011 10010 20110011 10030 COPPL	CS_OFFL_SIR_GOPM_2_20210204T144644_20210204T150459_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Booksetter Coathy Storage Coathy S	CS_OFFL_SIR_GOPM_2_20210204T150708_20210204T150906_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dec. Col.	CS_OFFL_SIR_GOPM_2_20210204T151340_20210204T151553_C001		
SC OFFL SIR, GOPM 2 2010004110109 20110041100000 CORT SIR GOPM 2 2010004110109 20110041171727C CORT CORT LIST, GOPM 2 20110041190109 20110041171727C CORT CORT LIST, GOPM 2 20110041170102 20110041171727C CORT CORT LIST, GOPM 2 20110041170102 20110041170102 CORT CORT LIST, GOPM 2 20110041170102 2011004117004 CORT CORT LIST, GOPM 2 2011004117004 20110041170010 CORT CORT LIST, GOPM 2 20110041170010 CORT LIST, CORT	CS_OFFL_SIR_GOPM_2_20210204T152247_20210204T155238_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description Caulity, CODD Call Control Residence Caulity Cod Control Residence Residence Caulity Cod Cod Residence Residence Caulity Cod C	CS_OFFL_SIR_GOPM_2_20210204T161150_20210204T163025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SECONT. 28T., COPM. 2 70010041170142 7001004117477 C0101 SECONT. 28T., COPM. 2 70010041770142 70010041717177 C0101 SECONT. 28T., COPM. 2 70010041770142 70010041717175 C0101 SECONT. 28T., COPM. 2 70010041770142 70010041717552 C001 SECONT. 28T., COPM. 2 70010041770142 70010041717552 C001 SECONT. 28T., COPM. 2 70010041770142 70010041717553 C001 SECONT. 28T., COPM. 2 70010041770142 70010041717553 C001 SECONT. 28T., COPM. 2 7001004177014 70010041717503 C0010041717503 C001004177503 C00100417	CS_OFFL_SIR_GOPM_2_20210204T163109_20210204T164425_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SB_OFFL_SRR_COPML_2_202102041170142_202102041170150_C0010100000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20210204T165629_20210204T170005_C001	0 7	
and Sud-sociater Cusin), COCG Allmeter Range and Backscater Cusility Plags have been set for core or core scrops. CS. OFFL, SIR, GOPM 2, 20210241173344, 202102041173345, CO01 CS. OFFL, SIR, GOPM 2, 20210241173345, 20210241173345, CO01 CS. OFFL, SIR, GOPM 2, 20210241173345, 20210241173345, CO01 CS. OFFL, SIR, GOPM 2, 20210241173345, 20210241173345, CO01 CS. OFFL, SIR, GOPM 2, 20210241173345, 20210241118018, CO01 CS. OFFL, SIR, GOPM 2, 20210241173606, 20210241118018, CO01 CS. OFFL, SIR, GOPM 2, 20210241173606, 20210241118018, CO01 CS. OFFL, SIR, GOPM 2, 20210241163142, 20210241118330, CO01 CS. OFFL, SIR, GOPM 2, 20210241163142, 20210241118360, CO01 CS. OFFL, SIR, GOPM 2, 20210241163142, 20210241118360, CO01 CS. OFFL, SIR, GOPM 2, 20210241163144, 20210241118360, CO01 CS. OFFL, SIR, GOPM 2, 20210241163140, 20210241118360, CO01 CS. OFFL, SIR, GOPM 2, 20210241163140, 20210241118360, CO01 CS. OFFL, SIR, GOPM 2, 20210241163140, 20210241118360, CO01 CS. OFFL, SIR, GOPM 2, 20210241164160, 2021024118590, CO01 CS. OFFL, SIR, GOPM 2, 20210241164160, 2021024118590, CO01 CS. OFFL, SIR, GOPM 2, 20210241164160, 2021024118590, CO01 CS. OFFL, SIR, GOPM 2, 2021024116410, 2021024118590, CO01 CS. OFFL, SIR, GOPM 2, 2021024116410, 2021024118500, CO01 CS. OFFL, SIR, GOPM 2, 2021024119410, 2021024119410, CO01	CS_OFFL_SIR_GOPM_2_20210204T170142_20210204T171727_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sociation Cuality CS_OFFL_SIR_GOPM_2_202102041175206_202102041175313_0001 CS_OFFL_SIR_GOPM_2_202102041175595_202102041180510_0001 CS_OFFL_SIR_GOPM_2_202102041180510_0001 CS_OFFL_SIR_GOPM_2_202102041190510_0001 CS_OFFL_SIR_GOPM_2_202102041190510_0001 CS_OFFL_SIR_GOPM_2_20210204119050_0001 CS_OFFL_SIR_GOPM_2_202102041200150_202102041201150_0001 CCS_OFFL_SIR_GOPM_2_202102041200150_202102041201150_0001 CCS_OFFL_SIR_GOPM_2_202102041200150_202102041201150_0001 CCS_OFFL_SIR_GOPM_2_2021020412001	CS_OFFL_SIR_GOPM_2_20210204T171930_20210204T172852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range SSHA, SWH and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on CoC Allimeter Range SSHA, SWH and Backscatter Quality Flags have been set on CoC Allimeter Range and Backscatter Quality Flags have been set on	CS_OFFL_SIR_GOPM_2_20210204T173344_20210204T173345_C001		
and Backscatter Quality, COGG and Backscatter Quality, COGG Allmeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T182424_20210204T182533_CO01 CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183490_CO01 CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183490_CO01 CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183908_CO01 CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183908_CO01 CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T183908_CO01 CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T185599_CO01 CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T185599_CO01 CS_OFFL_SIR_GOPM_2_20210204T184401_20210204T185599_CO01 CS_OFFL_SIR_GOPM_2_20210204T185518_20210204T185591_CO01 CS_OFFL_SIR_GOPM_2_20210204T185518_20210204T185591_CO01 CS_OFFL_SIR_GOPM_2_20210204T185518_20210204T185511_CO01 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191349_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191349_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191349_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191349_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191349_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191349_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191321_CO01 CS_OFFL_SIR_GOPM_2_20210204T191321_CO010 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200156_CO01 CS_OFFL_SIR_GOPM_2_20210204T209840_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T209840_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T209840_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T20199_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T20199_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T20199_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T20199_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T200165_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T200165_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T200165_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T200165_20210204T201805_CO01 CS_OFFL_SIR_GOPM_2_20210204T200165_20210204T201805_CO01	CS_OFFL_SIR_GOPM_2_20210204T175206_20210204T175313_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210204T182424_20210204T182430_C001 CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183430_C001 CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183430_C001 CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T183080_C001 CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T185599_C001 CS_OFFL_SIR_GOPM_2_20210204T18618_20210204T185599_C001 CS_OFFL_SIR_GOPM_2_20210204T18618_20210204T185591_C001 CS_OFFL_SIR_GOPM_2_20210204T18618_20210204T185591_C001 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T19121_C001 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T19121_C001 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T19121_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T19121_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T19121_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T20919_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T20919_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T20919_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T20919_20210204T20719_C001 CS_OFFL_SIR_GOPM_2_20210204T20919_20210204T20119_20210204T20019_C001 CS_OFFL_SIR_GOPM_2_20210204T20919_20210204T20119_20210204T20119_C001 CS_OFFL_SIR_GOPM_2_20210204T20119_20210204T20119_20210204T20119_C001 CS_OFFL_SIR_GOPM_2_20210204T20119_20210204T20119_201004T20119_C001 CS_OFFL_SIR_GOPM_2_20210204T20119_20210204T20119_20100	CS_OFFL_SIR_GOPM_2_20210204T175650_20210204T180810_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T183908_C001 CS_OFFL_SIR_GOPM_2_20210204T184343_20210204T185559_C001 CS_OFFL_SIR_GOPM_2_20210204T184101_20210204T185559_C001 CS_OFFL_SIR_GOPM_2_20210204T184101_20210204T18559_C001 CS_OFFL_SIR_GOPM_2_20210204T185618_20210204T18559_C001 CS_OFFL_SIR_GOPM_2_20210204T185618_20210204T18559_C001 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_C001 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_C001 CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_C001 CS_OFFL_SIR_GOPM_2_20210204T191340_20210204T191321_C001 CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T191410_C001 CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T191410_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T200840_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T200840_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T200840_20210204T201716_C001 CS_OFFL_SIR_GOPM_2_20210204T200840_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201156_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201156_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201156_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201155_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201155_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T211515_C001 CCG_Allimeter Range Cuality, CCCG_Backscatter Quality Flags have been set for one or more records. CC_OFFL_SIR_GOPM_2_20210204T201159_20210204T211515_C001 CCG_Allimeter Range Cuality, CCCG_Backscatter Quality Flags have been set for one or more records. CC_OFFL_SIR_GOPM_2_20210204T211156_C001 CCG_Allimeter Range Cuality, CCCG_Backscatter Quality Flags have been set for one or more records. CC_OFFL_SIR_GOPM_2_20210204T211151	CS_OFFL_SIR_GOPM_2_20210204T182424_20210204T182533_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_GOPM_2_20210204T184101_20210204T18559_C001 Cs_OFFL_SIR_GOPM_2_20210204T184101_20210204T18559_C001 Cs_OFFL_SIR_GOPM_2_20210204T185618_20210204T185631_C001 Cs_OFFL_SIR_GOPM_2_20210204T185618_20210204T185631_C001 Cs_OFFL_SIR_GOPM_2_20210204T191321_C001 Cs_OFFL_SIR_GOPM_2_20210204T194104_C001 Cs_OFFL_SIR_GOPM_2_20210204T194104_C001 Cs_OFFL_SIR_GOPM_2_20210204T194104_C001 Cs_OFFL_SIR_GOPM_2_20210204T194104_C001 Cs_OFFL_SIR_GOPM_2_20210204T194104_C001 Cs_OFFL_SIR_GOPM_2_20210204T200404_C0014T04155_C001 Cs_OFFL_SIR_GOPM_2_20210204T200404_C0014T04155_C001 Cs_OFFL_SIR_GOPM_2_20210204T20016_C001 Cs_OFFL_SIR_GOPM_2_20210204T201159_02210204T201805_C001 Cs_OFFL_SIR_GOPM_2_20210204T201159_02210204T204633_C001 Cs_OFFL_SIR_GOPM_2_20210204T201159_02210204T211512_C001 Cc_OFFL_SIR_GOPM_2_20210204T201159_02210204T211512_C001 Cc_OGA Allimeter Range Quality, OCOG Baltimeter Range and Backscatter Quality Flags have been set for one or more records. Cs_OFFL_SIR_GOPM_2_20210204T201159_02210204T211521_C001 Cc_OGA Allimeter Range Quality, OCOG Baltimeter Range and Backscatter Quality Flags have been set for one or more records. Cc_OFFL_SIR_GOPM_2_20210204T211136_20210204T2115121_C001 Cc_OGA Allimeter Range Quality, OCOG Baltimeter Range and Backscatter Quality Flags have been set for one or more records. Cc_OFFL_SIR_GOPM_2_20210204T211136_20210204T2115151_C001 Cc_OGA Allimeter Range Quality, OCOG Baltimeter Range and Backscatter Quality Flags have been set for	CS_OFFL_SIR_GOPM_2_20210204T183125_20210204T183430_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_C001 CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T194140_C001 CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T194140_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CCS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CCS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CCS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CCS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CCS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211815_C001 CCS_OFFL_SIR_G	CS_OFFL_SIR_GOPM_2_20210204T183434_20210204T183908_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_C001 DCGG Altimeter Range Quality, OCOG Backscatter Quality Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T194140_C001 CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001 DCGG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201136_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T201136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211515_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211515_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211515_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211515_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211515_C001 CCGG Altimeter Range Quality, CCGG Altimeter Range Quality, CCGG Altimeter Range Quality, CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211521_C001 CCGG Altimeter Range Quality, CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211515_C001 CCGG Altimeter Range Quality, CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGG Altimeter Range Quality, CCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGG Altimeter Range Quality, CCGG Altimeter Range Altimeter Range and B	CS_OFFL_SIR_GOPM_2_20210204T184101_20210204T185559_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T194140_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T200716_C001 CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201156_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T201136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211774_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211774_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211774_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211774_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211774_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211774_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T2117	CS_OFFL_SIR_GOPM_2_20210204T185618_20210204T185631_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been 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 Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T201521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CCG Altimeter Range Quality, OCOG Backscatter Quality CCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGOFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CCG Altimeter Range Quality, OCOG Backscatter	CS_OFFL_SIR_GOPM_2_20210204T191249_20210204T191321_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201157_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T20106_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T20106_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T20106_20210204T2011521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T2111734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214603_C001 CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214603_C001 CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214805_C001 CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T211815_C001 CCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T211815_C001 CCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T211815_C001 CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20210204T193430_20210204T194140_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001 CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T21136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T2117734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T2117734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214603_C001 COCOA Altimeter Range Quality, OCOG Backscatter Quality CCS_OFFL_SIR_GOPM_2_20210204T2117734_20210204T211815_C001 CCS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214603_C001	CS_OFFL_SIR_GOPM_2_20210204T194212_20210204T200716_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T20106_20210204T201603_C001 Backscatter Quality CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T204633_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211977_20210204T214603_C001 CS_OFFL_SI	CS_OFFL_SIR_GOPM_2_20210204T200940_20210204T201157_C001		
CS_OFFL_SIR_GOPM_2_20210204T2016_20210204T204633_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20210204T201159_20210204T201805_C001		
Backscatter Quality Gr one or more records. CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001 DCOG Altimeter Range Quality, OCOG Backscatter Quality Gr one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20210204T202016_20210204T204633_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20210204T211136_20210204T211521_C001		
CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214603_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20210204T211734_20210204T211815_C001		
	CS_OFFL_SIR_GOPM_2_20210204T211917_20210204T214603_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20210204T215153_20210204T215608_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_20210204T215903_20210204T222620_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_20210204T222714_20210204T222917_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_20210204T223001_20210204T223134_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_20210204T225213_20210204T232510_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_20210204T233105_20210204T233647_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_20210204T233807_20210204T234429_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_20210204T002656_20210204T002815_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_20210204T004914_20210204T005059_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_20210204T023022_20210204T023037_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_20210204T060533_20210204T060747_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_20210204T065202_20210204T065348_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_20210204T070443_20210204T070708_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_20210204T083822_20210204T083828_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_20210204T200749_20210204T200940_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_20210204T061127_20210204T061432_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_20210204T073901_20210204T074149_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_20210204T074612_20210204T075134_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_20210204T110017_20210204T110021_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_20210204T174255_20210204T174548_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210204T200716_20210204T200749_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210204T232510_20210204T232722_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.

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.

Product	Test Failed	Description
CS OFFE SIR GOPN 2 202102041001821 202102041002135 C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	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_20210204T015707_20210204T020026_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T024625_20210204T024933_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T033343_20210204T033419_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 and the OCOG Altimeter Range and Backscatter Quality Flags has the for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T033419_20210204T033532_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 and the OCOG Altimeter Range and Backscatter Quality Flags has to for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T043415_20210204T043431_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 and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T053916_20210204T054022_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T060121_20210204T060423_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T060533_20210204T060747_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T065202_20210204T065348_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T070033_20210204T070440_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T070443_20210204T070708_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T074216_20210204T074612_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T075134_20210204T075206_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T080110_20210204T080159_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T083156_20210204T083429_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T102056_20210204T102225_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T115052_20210204T115212_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 Quali and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T123746_20210204T124006_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T124018_20210204T124047_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 and the OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T125147_20210204T125244_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T151044_20210204T151340_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T151553_20210204T152115_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T160652_20210204T161113_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPN_2_20210204T172853_20210204T173216_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T174835_20210204T175101_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_GOPN_2_20210204T180811_20210204T181335_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.

CS_OFFL_SIR_GOPN_2_20210204T190554_20210204T190907_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_20210204T192511_20210204T192733_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_20210204T192753_20210204T192935_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_20210204T200749_20210204T200940_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_20210204T204633_20210204T204955_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_20210204T211522_20210204T211734_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_20210204T214728_20210204T214906_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_20210204T215609_20210204T215903_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_20210204T224701_20210204T225112_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_20210204T232722_20210204T233105_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_20210204T235343_20210204T235717_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_20210204T005548_20210204T005934_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_20210204T010828_20210204T011722_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_20210204T024438_20210204T024625_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_20210204T024933_20210204T025718_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_20210204T025841_20210204T025958_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_20210204T042832_20210204T043414_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_20210204T052354_20210204T052917_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_20210204T054323_20210204T054536_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_20210204T060029_20210204T060121_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_20210204T060423_20210204T060533_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_20210204T060747_20210204T061127_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_20210204T061127_20210204T061432_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_20210204T073901_20210204T074149_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_20210204T074612_20210204T075134_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_20210204T075207_20210204T075302_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.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimates Bases COULA CAULand Basics the Ouglity Flore
CS_OFFL_SIR_GOPR_2_20210204T084336_20210204T084413_C001	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_20210204T092435_20210204T093417_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_20210204T110157_20210204T110546_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_20210204T110546_20210204T110933_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_20210204T120112_20210204T120316_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_20210204T124047_20210204T124746_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_20210204T124746_20210204T125058_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_20210204T125257_20210204T125632_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_20210204T125917_20210204T130235_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_20210204T141751_20210204T141803_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_20210204T141932_20210204T142646_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_20210204T142646_20210204T143058_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_20210204T143114_20210204T144127_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_20210204T150906_20210204T151043_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_20210204T155238_20210204T155703_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_20210204T160118_20210204T160541_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_20210204T160541_20210204T160652_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_20210204T163026_20210204T163109_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_20210204T164426_20210204T165030_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_20210204T173915_20210204T174255_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_20210204T174255_20210204T174548_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_20210204T175314_20210204T175650_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_20210204T185632_20210204T185915_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_20210204T185915_20210204T190448_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_20210204T191858_20210204T192511_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_20210204T192936_20210204T193042_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_20210204T193048_20210204T193306_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_20210204T202012_20210204T202016_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_20210204T205630_20210204T205851_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_20210204T210037_20210204T210457_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_20210204T223444_20210204T224701_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_20210204T234429_20210204T234911_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 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:

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:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20210203T233225_20210204T002201_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_220210204T002201_20210204T011140_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_20210204T011140_20210204T020116_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_20210204T020116_20210204T025055_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_20210204T025055_20210204T034030_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_20210204T034030_20210204T043009_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_20210204T043009_20210204T051945_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_20210204T051945_20210204T060924_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_20210204T060924_20210204T065900_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_20210204T065900_20210204T074839_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_20210204T074839_20210204T083814_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_220210204T083814_20210204T092753_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_220210204T092753_20210204T101729_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_220210204T101729_20210204T110708_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_20210204T110708_20210204T115644_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_20210204T115644_20210204T124623_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_20210204T124623_20210204T133558_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_20210204T133558_20210204T142538_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc 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_20210204T142538_20210204T151513_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_20210204T151513_20210204T160452_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_20210204T160452_20210204T165428_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc 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_20210204T165428_20210204T174407_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_20210204T174407_20210204T183342_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_20210204T183342_20210204T192321_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_20210204T192321_20210204T201257_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_20210204T201257_20210204T210236_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_20210204T210236_20210204T215212_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_20210204T215212_20210204T224151_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210204T224151_20210204T233127_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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.

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:

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:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

30

28

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	193	193	6	187	0
SIR_GOPR1B	108	108	0	108	0
SIR_GOPN1B	107	107	2	105	0
SIR_GOPM_2	193	193	145	48	0
SIR_GOPR_2	108	108	34	73	1
SIR_GOPN_2	107	107	42	65	0
SIR GOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

2

Total number of occurrences of each error

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

Test Description Key:					
Abbreviation	Test name	Details			
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7			
RL	RangeLatitude_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

2070

Total number of occurrences of each warning

	Total number of occurrences of each warning								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD		
SIR_GOPM1B	187	0	0	0	0	0	0		
SIR_GOPM_2	0	0	34	31	1	37	0		
SIR_GOPN1B	104	0	0	0	0	0	0		
SIR_GOPN_2	0	0	10	37	5	29	32		
SIR_GOPR1B	102	0	0	0	0	0	0		
SIR GOPR 2	0	1	24	35	1	27	22		

Product Type	RBSZOPOEPNCDF	RDACONCDF	RMSSGHOPONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	36	0	1	31	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	16	0	0	0	0	24	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	13	1	0	0	33	0	42

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	23	0	0	3	21	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	39	0	0	34	16	48	58
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	0	33	0	1	55	25

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_GOPM1B	0	0	0	0	1	0	0
SIR_GOPM_2	6	32	0	3	1	0	0
SIR_GOPN1B	0	0	0	0	0	0	51
SIR_GOPN_2	35	34	35	16	0	1	0
SIR_GOPR1B	0	0	0	0	0	0	108
SIR_GOPR_2	9	28	35	2	0	4	0

Produc	t Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GC	OP_2_	13	28	29	5	29	17	29

Product Type	RDACONCDF	RMSSGHOPONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	1	1	15	27	25	17	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•
SIR_GOP_2_	17	24	29	17	16	29	

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			

RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RDACONCDF	RangeDynamicAtmosphericCorrectionOceanNetCDF	The Dynamic atmospheric correction should be between -1050mm and 1000mm (or missing) for surface type = ocean - NetCDF
RMSSGHOPONCDF	RangeMSSGeoidHeightOPOceanNetCDF	The MSS/geoid height should be between -106000mm and 88000mm (or missing) for surface type = ocean - NetCDF
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	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:

Product name

Product name
CS_OFFL_SIR_GOP_2_20210204T224151_20210204T233127_C002