

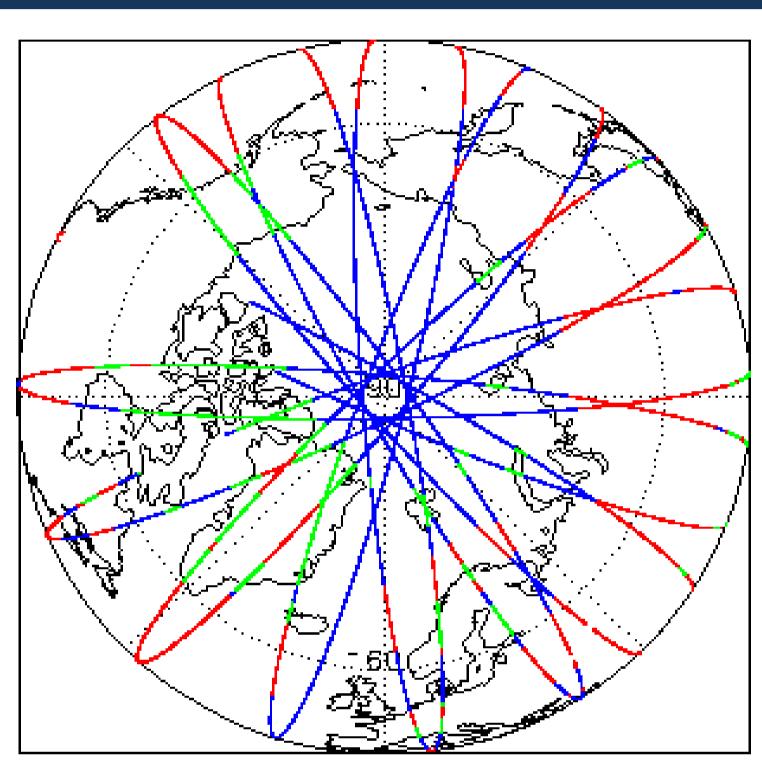
1. Overview

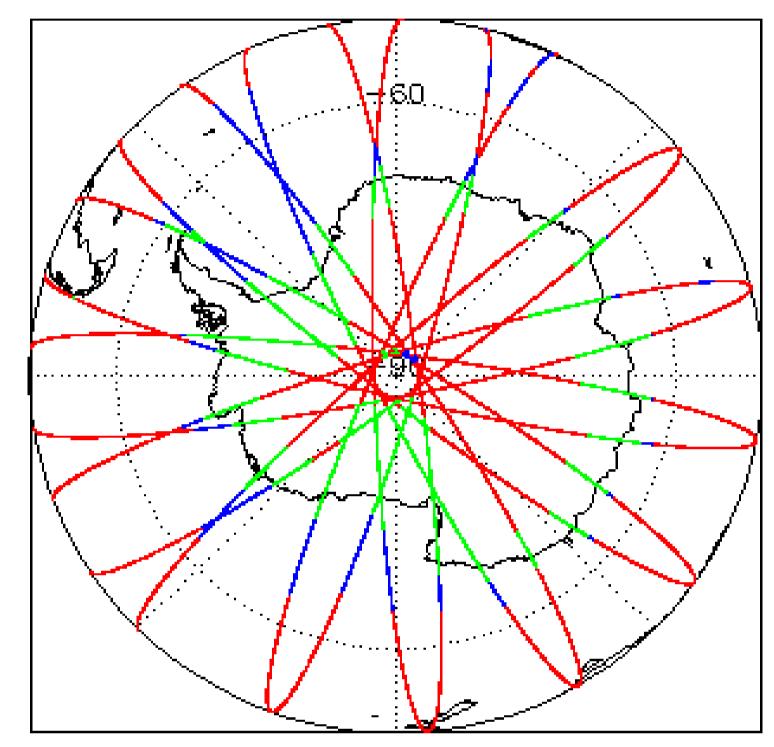
Report Production:	24-Feb-2021
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

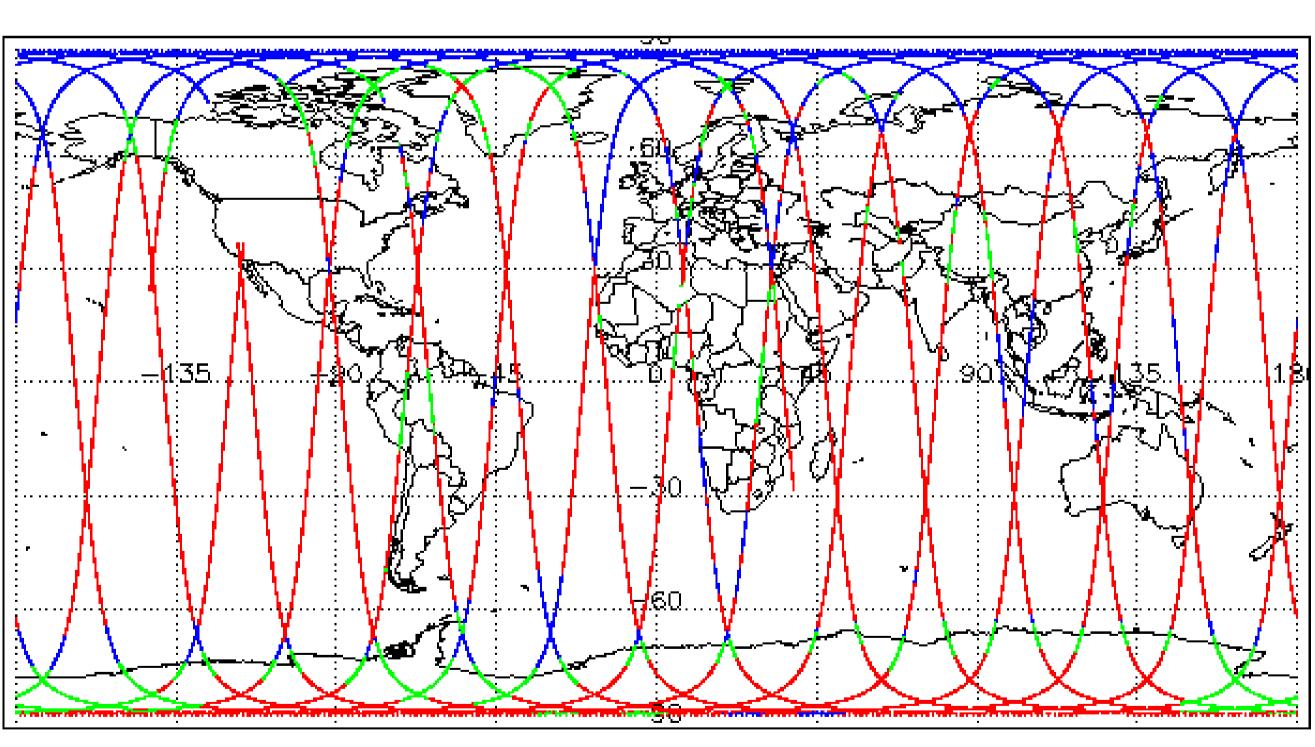
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

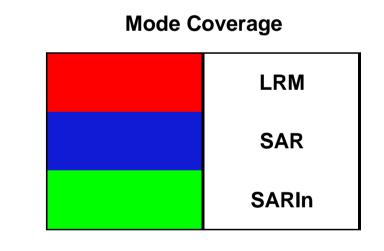
Mission / Instru	iment News
23-Jan-2021	None
24-Jan-2021	None
25-Jan-2021	Nothing planned

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:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

2

0

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210124T123454_20210124T124124_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPN1B_20210124T062010_20210124T062017_C001	Cal1 Correction Missing	The Cal1 correction has not been applied

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.

20

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210124T001445_20210124T001619_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210124T054537_20210124T055510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210124T055713_20210124T061246_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210124T104434_20210124T111045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210124T163828_20210124T164020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T002911_20210124T003005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T025545_20210124T030009_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T034355_20210124T034443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T034521_20210124T034807_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T052741_20210124T052844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T070535_20210124T070746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T094157_20210124T094340_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T112059_20210124T112238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T134912_20210124T135003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T171041_20210124T171159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T193915_20210124T194102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210124T215835_20210124T215904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210124T013859_20210124T014335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210124T070114_20210124T070207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210124T185505_20210124T185726_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:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210124T001445_20210124T001619_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_20210124T001851_20210124T001905_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_20210124T225200_20210124T225804_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_20210124T225935_20210124T232724_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_20210124T232728_20210124T232733_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_20210124T232735_20210124T232758_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_20210124T232801_20210124T232809_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_20210124T232811_20210124T232839_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_20210124T232842_20210124T232856_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_20210124T232859_20210124T232901_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_20210124T232903_20210124T232904_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_20210124T232912_20210124T233145_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_20210124T233218_20210124T233418_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_20210124T233617_20210124T233747_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_20210124T011826_20210124T012140_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_20210124T025545_20210124T030009_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_20210124T030558_20210124T030716_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_20210124T034521_20210124T034807_C001	Iviean Sea Surrace (1), Iviean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_20210124T034810_20210124T034937_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
CS_OFFL_SIR_GOPN_2_20210124T044326_20210124T044513_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_20210124T052741_20210124T052844_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_20210124T062138_20210124T062406_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_20210124T070535_20210124T070746_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_20210124T080044_20210124T080451_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_20210124T084217_20210124T084610_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_20210124T085119_20210124T085154_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210124T094157_20210124T094340_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_20210124T112059_20210124T112238_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_20210124T125106_20210124T125226_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_20210124T125755_20210124T130111_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_20210124T134912_20210124T135003_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_20210124T135251_20210124T135403_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_20210124T143033_20210124T143147_C001		There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20210124T143653_20210124T144009_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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_20210124T161128_20210124T161405_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_20210124T161558_20210124T162142_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_20210124T170648_20210124T170809_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_20210124T174952_20210124T175304_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPN_2_20210124T184600_20210124T184706_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_20210124T192901_20210124T193103_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_20210124T202514_20210124T203102_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_20210124T210834_20210124T210952_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_20210124T224754_20210124T224915_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_20210124T225804_20210124T225928_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20210124T001905_20210124T002044_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_20210124T003005_20210124T003754_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_20210124T020943_20210124T021814_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_20210124T034937_20210124T035713_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_20210124T052844_20210124T053411_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_20210124T053502_20210124T053559_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_20210124T062406_20210124T062640_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210124T065727_20210124T065834_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_20210124T070746_20210124T071442_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_20210124T084610_20210124T085119_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_20210124T102340_20210124T103140_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_20210124T120216_20210124T120948_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_20210124T121247_20210124T121505_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_20210124T121858_20210124T122043_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_20210124T134003_20210124T134748_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_20210124T134748_20210124T134912_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_20210124T151938_20210124T152647_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_20210124T152647_20210124T154150_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_20210124T165932_20210124T170538_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_20210124T170538_20210124T170648_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_20210124T174800_20210124T174952_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20210124T183917_20210124T184334_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_20210124T184334_20210124T184600_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_20210124T201943_20210124T202514_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_20210124T220031_20210124T220532_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_20210124T225928_20210124T225935_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20210124T233418_20210124T233617_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPR_2_20210124T233747_20210124T234733_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

ProductTest FailedDescriptionCS_OFFL_SIR_GOPM_2_20210124T123454_20210124T124123_C001Power scaling errorThere is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210123T235819_20210124T000653_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_20210124T002732_20210124T002817_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_20210124T004107_20210124T011549_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_20210124T012140_20210124T012653_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_20210124T012850_20210124T013138_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_20210124T013339_20210124T013754_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_20210124T014335_20210124T014758_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_20210124T020412_20210124T020642_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_20210124T022043_20210124T022948_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_20210124T023234_20210124T025426_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_20210124T030148_20210124T030557_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_20210124T030805_20210124T033011_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T033106_20210124T033526_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T034007_20210124T034308_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T040157_20210124T040517_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T040656_20210124T043350_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T043514_20210124T044040_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T045144_20210124T050413_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flagand the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T050456_20210124T052207_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flaand the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T052607_20210124T052741_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T054537_20210124T055510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T055713_20210124T061246_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T061442_20210124T061938_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T062017_20210124T062138_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T062839_20210124T064101_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T064541_20210124T065727_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T073637_20210124T075141_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T075408_20210124T075852_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T080509_20210124T083212_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T085959_20210124T090002_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T090613_20210124T092713_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T092802_20210124T093141_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T093432_20210124T093808_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T094423_20210124T101303_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T104434_20210124T111045_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T111227_20210124T111723_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T111730_20210124T112058_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.

CS_OFFL_SIR_GOPM_2_20210124T112457_20210124T115908_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_20210124T124415_20210124T124537_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_20210124T125226_20210124T125755_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_20210124T130351_20210124T133724_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_20210124T135054_20210124T135226_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_20210124T141012_20210124T142939_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T143147_20210124T143652_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_20210124T144250_20210124T151619_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_20210124T154150_20210124T160429_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_20210124T161405_20210124T161558_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_20210124T162245_20210124T163521_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_20210124T163642_20210124T163733_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_20210124T163741_20210124T163826_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_20210124T164501_20210124T165205_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_20210124T165208_20210124T165327_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_20210124T170809_20210124T171041_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_20210124T171215_20210124T172922_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_20210124T173118_20210124T174538_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_20210124T175304_20210124T175510_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_20210124T175604_20210124T180012_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_20210124T180200_20210124T181523_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_20210124T181642_20210124T181726_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_20210124T181927_20210124T182851_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_20210124T185726_20210124T190818_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_20210124T191348_20210124T192234_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_20210124T192238_20210124T192809_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.

US OFFE SIR GOPM / /0/101/41193103 /0/101/41193915 COOT	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_20210124T194133_20210124T195726_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		The Ocean Altimeter Range, SSHA, SWH 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_20210124T201315_20210124T201331_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T211232_20210124T211750_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T212033_20210124T214545_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T221819_20210124T224516_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T225200_20210124T225804_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210124T225935_20210124T232724_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		The Ocean Altimeter Range, SSHA, SWH 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_20210124T235119_20210125T002447_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210124T034810_20210124T034937_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210124T062010_20210124T062017_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_20210124T064153_20210124T064541_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210124T093201_20210124T093432_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_20210124T104001_20210124T104107_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_20210124T171041_20210124T171159_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
U.S UFFL SIR GUPIN / /U/101/41/148/8 /U/101/41/14913 UUU1	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_20210124T003005_20210124T003754_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		The Ocean Altimeter Range, SSHA, SWH 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_20210124T030141_20210124T030148_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
US OFFI SIR GOPR / /0/101/411//046 /0/101/411//048 U001	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_20210124T164020_20210124T164501_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20210124T002911_20210124T003005_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_20210124T003754_20210124T003901_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_20210124T011826_20210124T012140_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_20210124T030558_20210124T030716_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_20210124T034810_20210124T034937_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_20210124T054205_20210124T054340_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_20210124T062010_20210124T062017_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_20210124T062138_20210124T062406_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_20210124T064153_20210124T064541_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_20210124T065905_20210124T070000_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_20210124T080044_20210124T080451_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_20210124T083957_20210124T084121_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_20210124T090103_20210124T090231_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_20210124T090329_20210124T090613_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_20210124T093201_20210124T093432_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_20210124T094157_20210124T094340_C001	,	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210124T112059_20210124T112238_C001	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_20210124T120948_20210124T121007_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_20210124T122518_20210124T122624_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_20210124T123120_20210124T123454_C001	,	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210124T134912_20210124T135003_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_20210124T135756_20210124T135912_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_20210124T140751_20210124T141012_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_20210124T143033_20210124T143147_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_20210124T161128_20210124T161405_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_20210124T161558_20210124T162142_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_20210124T174952_20210124T175304_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_20210124T182851_20210124T183109_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_20210124T184759_20210124T184857_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_20210124T190818_20210124T191348_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_20210124T200608_20210124T200954_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_20210124T202514_20210124T203102_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_20210124T214545_20210124T214643_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_20210124T225009_20210124T225200_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_20210124T234733_20210124T235119_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_20210124T002548_20210124T002623_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_20210124T003005_20210124T003754_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_20210124T020642_20210124T020931_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_20210124T020943_20210124T021814_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_20210124T021816_20210124T022043_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_20210124T033526_20210124T034007_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_20210124T034937_20210124T035713_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_20210124T035717_20210124T035729_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_20210124T035826_20210124T040020_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_20210124T044513_20210124T045144_C001	TAITIMETER RANGE AND BACKSCATTER CHAILTY	The Ocean Altimeter Range, SSHA, SWH 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_20210124T050414_20210124T050456_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_20210124T052844_20210124T053411_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_20210124T054114_20210124T054129_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_20210124T062406_20210124T062640_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.

Committee Comm	CS_OFFL_SIR_GOPR_2_20210124T065727_20210124T065834_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Control of the Cont	CS_OFFL_SIR_GOPR_2_20210124T070114_20210124T070207_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES SCHISSETTOMERS DATA CE OFFI, SR GOPFI 2 2000 SPITISHES DATA CE OFFI SR GOPFI 2 2000 SPITISHES CE OFFI SR GOPFI 2 2000 SPITISHES	CS_OFFL_SIR_GOPR_2_20210124T070746_20210124T071442_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. CP-L_SR_SCOPL_2_222132-TERROT_222132-TERROT_LIBERT	CS_OFFL_SIR_GOPR_2_20210124T071902_20210124T071917_C001		
0.00 FEL SBR (COPR 2 200 INDET MAKE) 2011 147 1931 15 COM STATE OF THE PROPERTY OLD PLANT OLD	CS_OFFL_SIR_GOPR_2_20210124T072822_20210124T073525_C001		
CS_OFF_SIR_CORR_2_222*0124*13240_22*0124*13240_CD011 CS_OFF_SIR_CORR_2_222*0124*13240_ZD012*13240_CD011 CS_OFF_SIR_CORR_2_222*0124*13240_ZD012*13240_CD011 CS_OFF_SIR_CORR_2_222*0124*13240_ZD012*13240_CD011 CS_OFF_SIR_CORR_2_222*0124*13240_ZD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD012*13240_CD0	CS_OFFL_SIR_GOPR_2_20210124T075853_20210124T075858_C001		, ,
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GS_OFF_SIR_GOPR_2_20210124T19261_202*0124T19054_OD* GS_OFF_SIR_GOPR_2_20210124T19262_002*0124T19054_OD* GS_OFF_SIR_GOPR_2_20210124T19262_002*0124T19054_OD* GS_OFF_SIR_GOPR_2_20210124T19262_002*0124T19054_OD* GS_OFF_SIR_GOPR_2_20210124T19262_002*0124T19054_OD* GS_OFF_SIR_GOPR_2_20210124T19262_002*0124T19054_OD* GS_OFF_SIR_GOPR_2_20210124T19054_OD* GS_OFF_SIR_GOPR_2_	CS_OFFL_SIR_GOPR_2_20210124T084610_20210124T085119_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DOCG Environment Cultury Pure Purp STATE, SUP Text Purp Pu	CS_OFFL_SIR_GOPR_2_20210124T085154_20210124T085334_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
de Copfe 2 20/210/2411027 42 20/210/2411045 20 20 20 20 20 20 20 20 20 20 20 20 20	CS_OFFL_SIR_GOPR_2_20210124T090007_20210124T090028_C001		, ,
and backscatter Quality PLRN, QCOS Attended Rungs and Backscatter Quality Plags have been set for one or more records. CS OFFL SIR GOPR 2 20210124T100301 20210124T100340 CO01 CS OFFL SIR GOPR 2 20210124T100301 20210124T100340 CO01 CS OFFL SIR GOPR 2 20210124T11065 20210124T100301 CO01 CS OFFL SIR GOPR 2 20210124T11065 20210124T100301 CO01 CS OFFL SIR GOPR 2 20210124T100301 20210124T100300 CO01 CS OFFL SIR GOPR 2 20210124T120021 20210124T120100 CO01 CS OFFL SIR GOPR 2 20210124T120021 20210124T120100 CO01 CS OFFL SIR GOPR 2 20210124T120021 20210124T120040 CO01 CS OFFL SIR GOPR 2 20210124T120071 20210124T120040 CO01 CS OFFL SIR GOPR 2 20210124T121007 20210124T120040 CO01 CS OFFL SIR GOPR 2 20210124T121007 20210124T120400 CO01 CS OFFL SIR GOPR 2 20210124T121007 20210124T120400 CO01 CS OFFL SIR GOPR 2 20210124T121007 20210124T12040 CO01 CS OFFL SIR GOPR 2 20210124T121360 20210124T12040 CO01 CS OFFL SIR GOPR 2 20210124T13450 CO01 CS OFFL SIR GOPR 2 20210124T13470 CO01 CS OFFL SIR GOPR 2 20210124T134000 CO01 CS OFFL SIR GOPR 2 20210124T134000 CO01 CS OFFL SIR GOPR 2 20210124T13400 CO01 CS OFFL SIR GOPR 2 20210124T134000 CO01 CS OFF	CS_OFFL_SIR_GOPR_2_20210124T093141_20210124T093201_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T103201_20210124T108494_CO01 Allender Range and Backscatter Quality PLRM. CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T1003_CO01 CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120103_CO01 CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120081_CO01 CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120081_CO01 CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120081_CO01 CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120081_CO01 CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120081_CO01 CS_OFFL_SIR_GOPR_2_20210124T120082_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T120082_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T130008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T150008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T150008_CO01 CS_OFFL_SIR_GOPR_2_20210124T130008_20210124T150008_CO01 CS_OFFL_SIR_GOPR_2_20210124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO010124T150008_CO01012	CS_OFFL_SIR_GOPR_2_20210124T102340_20210124T103140_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS OFFL SIR GOPR 2 20210124T11045 20210124T11049 C001 All more FRange and Backcaater Quality PLRM, COGG All more records. CS OFFL SIR GOPR 2 20210124T120212 20210124T120103 C001 OS OFFL SIR GOPR 2 20210124T120216 20210124T120048, C001 OS OFFL SIR GOPR 2 20210124T12007 20210124T121011 C001 OS OFFL SIR GOPR 2 20210124T121007 20210124T121011 C001 OS OFFL SIR GOPR 2 20210124T121007 20210124T121010 OS OFFL SIR GOPR 2 20210124T121007 20210124T121010 OS OFFL SIR GOPR 2 20210124T121007 20210124T121001 OS OFFL SIR GOPR 2 20210124T121007 20210124T121001 OS OFFL SIR GOPR 2 20210124T121007 20210124T12001 OS OFFL SIR GOPR 2 20210124T121007 20210124T12003 C001 OS OFFL SIR GOPR 2 20210124T121007 20210124T12003 C001 OS OFFL SIR GOPR 2 20210124T121007 20210124T12003 C001 OS OFFL SIR GOPR 2 20210124T124124 20210124T12000 C001 OS OFFL SIR GOPR 2 20210124T124124 20210124T12403 C001 OS OFFL SIR GOPR 2 20210124T124124 20210124T13400 C001 OS OFFL SIR GOPR 2 20210124T134003 20210124T13400 C001 OS OFFL SIR GOPR 2 20210124T135047 20010124T135048 C001 OS OFFL SIR GOPR 2 20210124T135047 C0010124T135048 C001 OS OFFL SIR GOPR 2 20210124T135047 C0010124T135040 C001 OS OFFL SIR GOPR 2 20210124T135047 C0010124T135048 C001 OS OFFL SIR GOPR 2 20210124T135040 C001 OS OFFL S	CS_OFFL_SIR_GOPR_2_20210124T103201_20210124T103434_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCGS Backscatter Quality CS_OFFL_SIR_GOPR_2_20210124T12016_20210124T120940_C001 CS_OFFL_SIR_GOPR_2_20210124T121017_20210124T121041_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12141_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12141_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12141_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12043_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12043_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12043_C001 CS_OFFL_SIR_GOPR_2_20210124T121037_20210124T12000_C001 CS_OFFL_SIR_GOPR_2_20210124T12410_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T135403_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T135427_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T15193_20210124T135247_C001 CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T152547_C001 CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T151820_C001 CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T151820_	CS_OFFL_SIR_GOPR_2_20210124T111045_20210124T111059_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T121067_20210124T121141_C001 Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T1211558_20210124T122043_C001 Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T124124_20210124T124415_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T1345648_C001 CS_OFFL_SIR_GOPR_2_20210124T135427_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T156193_20210124T15823_C001 CS_OFFL_SIR_GOPR_2_20210124T156193_20210124T15823_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T158247_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T158647_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T158647_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T158647_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T158647_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T156647_C001 CS_OFFL_SIR_GOPR_2_20210124T156647_20210124T156647_C001	CS_OFFL_SIR_GOPR_2_20210124T120021_20210124T120103_C001		
and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM. CS OFFL SIR GOPR 2 20210124T121858 20210124T122043 C001 CS_OFFL_SIR_GOPR_2_20210124T124124_20210124T12415_C001 CS_OFFL_SIR_GOPR_2_20210124T124124_20210124T12415_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T1345648 C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T158547_C001 CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T15160430_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T15160430_20210124T154150_C001 Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T15150_C001 Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151639_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T151639_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T15150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154000_C0014000000000000000000000000000000	CS_OFFL_SIR_GOPR_2_20210124T120216_20210124T120948_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T121858_20210124T12043_C001 Altimeter Range and Backscatter Quality PLRM, OCOG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T124124_20210124T124415_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T134032_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T15427_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T15427_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T151838_20210124T151832_C001 CS_OFFL_SIR_GOPR_2_20210124T151838_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T151838_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20010124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T154150	CS_OFFL_SIR_GOPR_2_20210124T121007_20210124T121141_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T124124_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001 CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001 CS_OFFL_SIR_GOPR_2_20210124T135427_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151649_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T151649_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151649_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T151649_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151649_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T152647_	CS_OFFL_SIR_GOPR_2_20210124T121858_20210124T122043_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T134703_20210124T13474B_C001 CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T13474B_C001 CS_OFFL_SIR_GOPR_2_20210124T135427_20210124T135648_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T15163_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T15163_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T15163_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T15163_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T15163_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 CCGB Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 CCGB Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCGCB Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGCB Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGCB Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCGCB Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Ra	CS_OFFL_SIR_GOPR_2_20210124T124124_20210124T124415_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG 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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Pla	CS_OFFL_SIR_GOPR_2_20210124T133724_20210124T134000_C001		, ,
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20210124T134003_20210124T134748_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T152647_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001	CS_OFFL_SIR_GOPR_2_20210124T135427_20210124T135648_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T152647_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range a	CS_OFFL_SIR_GOPR_2_20210124T151619_20210124T151823_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags 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 F	CS_OFFL_SIR_GOPR_2_20210124T151938_20210124T152647_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags	CS_OFFL_SIR_GOPR_2_20210124T152647_20210124T154150_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20210124T160430_20210124T161128_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPR_2_20210124T165932_20210124T170538_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_20210124T170538_20210124T170648_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_20210124T172923_20210124T173118_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_20210124T183917_20210124T184334_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_20210124T184334_20210124T184600_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_20210124T184857_20210124T185041_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_20210124T185117_20210124T185336_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_20210124T185505_20210124T185726_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_20210124T195727_20210124T195949_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_20210124T201822_20210124T201942_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_20210124T201943_20210124T202514_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_20210124T215627_20210124T215835_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_20210124T220031_20210124T220532_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_20210124T224516_20210124T224754_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_20210124T233418_20210124T233617_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_20210124T233747_20210124T234733_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 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: 203

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: 70

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: 154

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.

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

CS_OFFL_SIR_GOP_2_20210124T02207_20210124T021147_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dropography (1) and the Mean Dropography height (solution 1) and the Mean Dropography (1) and the Mean Dropography height (solution 1) and the Mean Dropography (1) and the Mean Dropography height (solution 1) for one or more records CS_OFFL_SIR_GOP_2_20210124T061951_20210124T064965_C001 Mean Sea Surface (1), Mean Dynamic Topography h
Topography (1) Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dropography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dropography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Enuilibrium I non-Period Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dropography (1) There is an error with the MSS height (solution 1) and the Mean Dropography (1) There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dropography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dropography height
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CS_OFFL_SIR_GOP_2_20210124T030102_20210124T04036_C001 CS_OFFL_SIR_GOP_2_20210124T04036_20210124T053016_C001 CS_OFFL_SIR_GOP_2_20210124T053016_20210124T053016_C001 CS_OFFL_SIR_GOP_2_20210124T053016_20210124T061951_C001 CS_OFFL_SIR_GOP_2_20210124T061951_20210124T075905_C001 CS_OFFL_SIR_GOP_2_20210124T075905_20210124T084845_C001 CS_OFFL_SIR_GOP_2_20210124T075905_20210124T084845_C001 CS_OFFL_SIR_GOP_2_20210124T075905_20210124T084845_C001 CS_OFFL_SIR_GOP_2_20210124T084845_20210124T093820_C001
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CS_OFFL_SIR_GOP_2_20210124T061951_20210124T070930_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height
Topography (1) Topography (2_20210124T070930_20210124T075905_C001 Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Topography (2_20210124T075905_20210124T084845_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution
Topography (1) Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2_20210124T084845_20210124T093820_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 2) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topography height (solution 3) and the Total Geocentric Ocean Topograph
CS_OFFL_SIR_GOP_220210124T084845_20210124T093820_C001 Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tides
CS_OFFL_SIR_GOP_2_20210124T093820_20210124T102800_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T102800_20210124T111735_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T111735_20210124T120715_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T120715_20210124T125650_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T125650_20210124T134629_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T134629_20210124T143604_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220210124T143604_20210124T152544_C001 Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS), Non-Equilibrium Long Period for one or more records
CS_OFFL_SIR_GOP_2_20210124T152544_20210124T161519_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T161519_20210124T170458_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T170458_20210124T175433_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T175433_20210124T184413_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T184413_20210124T193348_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20210124T193348_20210124T202328_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2_20210124T202328_20210124T211303_C001 Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Total Geocentric Ocean height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20210124T211303_20210124T220242_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20210124T220242_20210124T225218_C001 Topography (1) Topography height (solution 1) for one or more records GPD Wet Tropospheric Correction, There is an error with the GPD Wet Troposheric Correction, the MSS Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20210124T225218_20210124T234157_C001 height (solution 1) and the Mean Dynamic Topography (solution 1) for one Topography (1) or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20210124T234157_20210125T003132_C001 Topography height (solution 1) for one or more records Topography (1)

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:

F	Product	Test Failed	Description
C	CS_OFFL_SIR_GOP_220210124T120715_20210124T125650_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (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: 30

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: 30

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: 30

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: 29

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	210	210	4	206	0
SIR_GOPR1B	142	142	0	142	0
SIR_GOPN1B	102	102	1	101	0
SIR_GOPM_2	210	210	153	57	0
SIR_GOPR_2	142	142	58	81	3
SIR_GOPN_2	102	102	38	64	0
SIR_GOP_P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC reports with errors:

5

Total number	of occurrences	of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	3	3	3	3							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	•
SIR GOP 2	2	2	2	2							

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

7.2 QCC Warnings

Number of QCC reports with warnings

Total number of occurrences of each warning

Р	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SI	IR_GOPM1B	206	0	0	0	0	0	0
S	SIR_GOPM_2	0	0	47	40	2	44	0
S	SIR_GOPN1B	100	0	0	0	0	0	0
S	SIR_GOPN_2	0	0	5	27	6	15	17
S	SIR_GOPR1B	136	0	0	0	0	0	0
S	SIR_GOPR_2	0	3	22	54	3	30	28

Product Type	RBSZOPOEPNCDF	RDTCONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	37	0	0	39	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	11	1	0	0	0	15	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	15	0	1	0	54	0	61

Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	35	0	0	9	31	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	26	0	0	24	14	35	45
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	0	55	0	3	54	28

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	5	39	0	3	0	0	0
SIR_GOPN1B	0	0	0	0	0	43	2
SIR_GOPN_2	25	21	21	9	1	0	0
SIR_GOPR1B	0	0	0	0	0	142	13
SIR_GOPR_2	9	33	44	2	10	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	19	29	29	5	29	17	27

Product Type	RDTCONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_GOP_2_	1	1	15	27	22	16	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•
SIR GOP 2	17	24	29	18	11	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
RDTCONCDF	RangeDryTroposphericCorrectionOceanNetCDF	The Dry tropospheric correction should be between -2500mm and -1900mm (or missing) for surface type = ocean - NetCDF
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	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	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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