

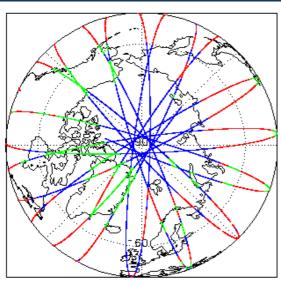
1. Overview

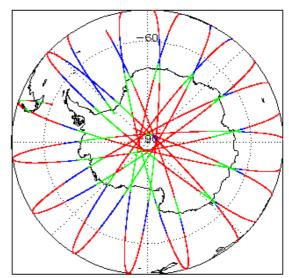
Report Production:	02-Feb-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP)	

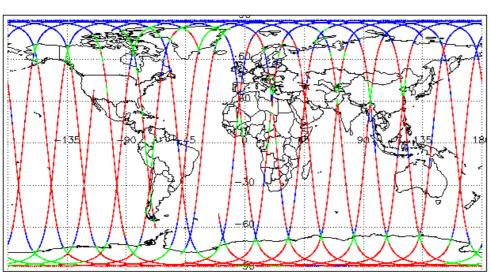
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

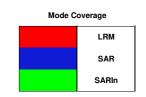
Mis	ssion / Instru	ment News
3	1-Dec-2021	None
0	1-Jan-2022	None
0	2-Jan-2022	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product
CS_OFFL_SIR_

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	Test Failed	Description
R_GOPM1B_20220101T055901_20220101T062607_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors: 19

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220101T015437_20220101T020657_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220101T063437_20220101T063640_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220101T120740_20220101T122041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220101T125349_20220101T130718_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220101T143425_20220101T143728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220101T143851_20220101T144550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220101T232018_20220101T232711_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220101T000529_20220101T001034_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220101T022031_20220101T022200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220101T032354_20220101T032946_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220101T123009_20220101T123207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220101T231517_20220101T231853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T004408_20220101T004704_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T011516_20220101T011810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T100551_20220101T100734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T131013_20220101T131348_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T173032_20220101T173302_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T214835_20220101T214906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220101T235146_20220101T235847_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

Product Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220101T015437_20220101T020657_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_20220101T000529_20220101T001034_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_20220101T004855_20220101T005147_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_20220101T014438_20220101T014546_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_20220101T022031_20220101T022200_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPN_2_20220101T022737_20220101T022948_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_20220101T032354_20220101T032946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220101T041638_20220101T041907_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_20220101T054623_20220101T054753_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_20220101T064609_20220101T065008_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_20220101T072622_20220101T072951_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_20220101T090532_20220101T090853_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_20220101T095548_20220101T095745_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220101T105308_20220101T105418_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_20220101T113543_20220101T113650_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_20220101T123009_20220101T123207_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_20220101T131423_20220101T131605_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_20220101T141639_20220101T141748_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_20220101T144930_20220101T145442_C001	GPD Wet Tropospheric Correction, Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the GPD Wet Tropospheric correction, 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_20220101T153923_20220101T154225_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_20220101T154900_20220101T155139_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_20220101T162934_20220101T163306_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_20220101T180514_20220101T180959_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_20220101T181740_20220101T181816_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_20220101T204508_20220101T204812_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_20220101T221815_20220101T222123_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_20220101T222409_20220101T222753_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_20220101T231517_20220101T231853_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_20211231T235949_20220101T000529_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_20220101T004704_20220101T004855_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_20220101T013803_20220101T014438_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_20220101T031707_20220101T032325_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_20220101T032325_20220101T032354_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_20220101T045914_20220101T050409_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_20220101T063640_20220101T064609_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_20220101T081702_20220101T082502_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_20220101T095745_20220101T100546_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_20220101T100551_20220101T100734_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20220101T113650_20220101T114410_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_20220101T125135_20220101T125349_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20220101T131605_20220101T132259_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_20220101T145443_20220101T150137_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_20220101T163306_20220101T163406_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_20220101T163407_20220101T164216_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_20220101T181000_20220101T181740_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_20220101T194928_20220101T195602_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_20220101T195602_20220101T195852_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_20220101T212546_20220101T212724_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPR_2_20220101T212728_20220101T213502_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_20220101T213502_20220101T213659_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_20220101T230736_20220101T230902_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_20220101T230920_20220101T231359_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_20220101T231359_20220101T231517_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220101T055901_20220101T062607_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20220101T001046_20220101T002814_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_20220101T002956_20220101T004408_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_20220101T005147_20220101T005351_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_20220101T005450_20220101T005853_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20220101T010047_20220101T011516_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220101T011811_20220101T012734_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_20220101T015437_20220101T020657_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_20220101T021239_20220101T022030_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_20220101T022200_20220101T022609_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_20220101T022949_20220101T023756_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_20220101T024035_20220101T025538_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_20220101T031212_20220101T031256_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_20220101T033227_20220101T034253_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_20220101T034257_20220101T040525_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_20220101T041111_20220101T041638_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_20220101T041948_20220101T044428_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_20220101T051658_20220101T054321_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_20220101T055041_20220101T055642_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_20220101T055901_20220101T062607_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_20220101T062636_20220101T062646_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_20220101T062726_20220101T062735_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_20220101T065008_20220101T072239_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_20220101T072951_20220101T073521_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_20220101T073837_20220101T074310_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_20220101T081257_20220101T081307_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_20220101T081411_20220101T081702_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_20220101T082916_20220101T084035_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_20220101T084039_20220101T090237_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_20220101T090853_20220101T090957_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_20220101T090959_20220101T091408_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_20220101T091851_20220101T093549_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_20220101T100734_20220101T104108_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_20220101T104431_20220101T104855_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_20220101T104901_20220101T104908_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_20220101T104914_20220101T105308_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_20220101T105756_20220101T105951_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_20220101T114755_20220101T115834_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_20220101T120315_20220101T120443_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_20220101T120740_20220101T122041_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_20220101T122237_20220101T122755_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_20220101T122813_20220101T123009_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_20220101T123823_20220101T125135_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_20220101T125349_20220101T130718_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_20220101T130820_20220101T131013_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_20220101T133311_20220101T134336_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_20220101T134515_20220101T135924_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_20220101T140204_20220101T140707_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_20220101T141539_20220101T141639_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_20220101T142246_20220101T142754_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_20220101T143401_20220101T143403_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_20220101T143425_20220101T143728_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_20220101T143851_20220101T144550_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_20220101T151738_20220101T153812_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_20220101T154225_20220101T154624_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_20220101T154645_20220101T154859_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_20220101T155301_20220101T161926_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

20 GPTI_BIT_COPN2_202010117204_200010117204_200010117204_00001017204_000010117204_000010117204_000010117204_000010117204_00001017204_000001017204_000001017204_000001017204_000001017204_000001017204_000001017204_000001017204_000001017204_000001017204_000001017204_0000001017204_0000001017204_0000001017204_0000001017204_0000001017204_00000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20220101T165318_20220101T171800_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
Concentration Concentratio	CS_OFFL_SIR_GOPM_2_20220101T172014_20220101T172539_C001	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
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CRITICAL SPE_GOME_2_record of Tiesday Cool	CS_OFFL_SIR_GOPM_2_20220101T183640_20220101T184921_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Security County Security Cou	CS_OFFL_SIR_GOPM_2_20220101T185206_20220101T185653_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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SS_OFFL_SIR_COPM_2_2020101T195652_002010T195654_0001 SPER_SIR_COPM_2_2020101T1005952_002010T100511_0001 Copy Allmorter Range and Sadocater Coulty sper sever been advantaged by the form on rome records and record by the record by the form on rome records and record by the record b	CS_OFFL_SIR_GOPM_2_20220101T191255_20220101T194533_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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Backscatter Quality CS_OFFL_SIR_GOPM_2_20220101721804_20220101721321_0001 South England Backscatter Quality Flags and Backscatter Quality Flags have been set for no er no no records CS_OFFL_SIR_GOPM_2_20220101722142_20220101722409_C001 SO_OFFL_SIR_GOPM_2_202201017222142_20220101722409_C001 SO_OFFL_SIR_GOPM_2_202201017225400_202201017225720_C001 SO_OFFL_SIR_GOPM_2_202201017225400_202201017225720_C001 SO_OFFL_SIR_GOPM_2_202201017225400_202201017225720_C001 SO_OFFL_SIR_GOPM_2_202201017225400_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C00101723044_C001 SO_OFFL_SIR_GOPM_2_20220101723042_C0020101723044_C001 SO_OF	CS_OFFL_SIR_GOPM_2_20220101T202753_20220101T203511_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been safter on or more records CS_OFFL_SIR_GOPM_2_20220101721607_20220101721548_C001 Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202201017218944_202201017214144_C001 CS_OFFL_SIR_GOPM_2_202201017218944_202201017224144_C001 CS_OFFL_SIR_GOPM_2_202201017218944_202201017224132_C001 CS_OFFL_SIR_GOPM_2_202201017218944_202201017224132_C001 CS_OFFL_SIR_GOPM_2_202201017225132_202201017224128_C001 CS_OFFL_SIR_GOPM_2_202201017225142_20220101722428_C001 CS_OFFL_SIR_GOPM_2_202201017225400_20220101722428_C001 CS_OFFL_SIR_GOPM_2_202201017225103_20220101722439_C001 CS_OFFL_SIR_GOPM_2_202201017225400_20220101722439_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225499_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225490_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017225409_C001 CS_OFFL_SIR_GOPM_2_202201017225400_20220101723052_C001 CS_OFFL_SIR_GOPM_2_202201017225400_202201017230542_C001 CS_OFFL_SIR_GOPM_2_202201017230102_202201017230542_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20220101723042_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20220101723042_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20220101723042_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20220101723042_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20220101723042_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20220101723042_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20201017230140_C001 CS_OFFL_SIR_GOPM_2_202201017230102_20201017230140_C001 CS_OFFL_SIR_GOPM_2_202201017154630_202201017130140_C001 CCOGA Allimeter Range, CSHA, SWH and Backscatter Quality Flags have been se	CS_OFFL_SIR_GOPM_2_20220101T203952_20220101T204507_C001		
and Backscatter Quality, OCOS Allmore Range and Backscatter Quality Flags have been affire to rear or more records CS_OFFL_SIR_GOPM_2_202201017213844_202201017214144_C001 CS_OFFL_SIR_GOPM_2_202201017213844_20220101722013_C001 CS_OFFL_SIR_GOPM_2_202201017215613_20220101722013_C001 CS_OFFL_SIR_GOPM_2_202201017220400_20220101722013_C001 CS_OFFL_SIR_GOPM_2_202201017220400_20220101722040_C001 CS_OFFL_SIR_GOPM_2_202201017220400_20220101722040_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722040_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722040_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101722005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101723005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101723005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_20220101723005_C001 CS_OFFL_SIR_GOPM_2_20220101722010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_2020101723010_20005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_20005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_20005_C001 CS_OFFL_SIR_GOPM_2_20220101723010_20005_C001 CCGG_Allmeter Range and Backscatter Quality Flags have been set for one or more records CCGG_Allmeter Range and Backscatter Quality Flags have been set for one or more records CCGG_Allmeter Ra	CS_OFFL_SIR_GOPM_2_20220101T205141_20220101T211321_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been SS, OFFL_SIR_GOPM_2_20220101T22040_20220101T221428_C001 CS_OFFL_SIR_GOPM_2_20220101T22040_20220101T221428_C001 CS_OFFL_SIR_GOPM_2_20220101T22040_20220101T221428_C001 CS_OFFL_SIR_GOPM_2_20220101T22040_20220101T221428_C001 CS_OFFL_SIR_GOPM_2_20220101T22040_20220101T221428_C001 CS_OFFL_SIR_GOPM_2_20220101T22010_20220101T22000_C001 CS_OFFL_SIR_GOPM_2_20220101T22010_20220101T20000_C001 CS_OFFL_SIR_GOPM_2_20220101T20010_C000_C000_C000_C000_C000_C000_C000	CS_OFFL_SIR_GOPM_2_20220101T211607_20220101T212546_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been at Manuel Flags have been at Manuel Flags and Backscatter Quality Flags have been at Manuel Flags and Backscatter Quality Flags have been at Manuel Flags and Backscatter Quality Flags have been at Manuel Flags and Backscatter Quality Flags have been at Manuel Flags and Backscatter Quality Flags have been at Manuel Flags Flags Flags Fla	CS_OFFL_SIR_GOPM_2_20220101T213844_20220101T214144_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20220101T222124_20220101T222409_CO01 CS_OFFL_SIR_GOPM_2_20220101T223103_20220101T225728_CO01 CS_OFFL_SIR_GOPM_2_20220101T223103_20220101T225728_CO01 CS_OFFL_SIR_GOPM_2_20220101T225840_20220101T230052_CO01 CS_OFFL_SIR_GOPM_2_20220101T225840_20220101T230052_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230052_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230124_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230124_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230124_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230144_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230144_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230144_CO01 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230144_CO01 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_CO01 CS_OFFL_SIR_GOPM_2_20220101T230142_CO020101T230146_CO01 CS_OFFL_SIR_GOPM_2_20220101T230142_CO01 CS_OFFL_SIR_GOPM_2_20220101T230142_CO01 CS_OFFL_SIR_GOPM_2_20220101T230144_CO01 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T53146_CO01 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T515122_CO01 CCS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T151422_CO01 CCS_OFFL_SIR_GOPM_2_20220101T15001_20220101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_2020101T15001_20	CS_OFFL_SIR_GOPM_2_20220101T215613_20220101T220213_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20220101T223103_20220101T225728_C001 CS_OFFL_SIR_GOPM_2_20220101T225103_20220101T225728_C001 CS_OFFL_SIR_GOPM_2_20220101T225840_20220101T230052_C001 CS_OFFL_SIR_GOPM_2_20220101T225840_20220101T230052_C001 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230424_C001 CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230424_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230146_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Qual	CS_OFFL_SIR_GOPM_2_20220101T220400_20220101T221428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOS Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230424_C001 CS_OFFL_SIR_GOPM_2_20220101T23018_20220101T230142_C001 CS_OFFL_SIR_GOPM_2_20220101T232018_20220101T232711_C001 CS_OFFL_SIR_GOPM_2_20220101T232719_20220101T232711_C001 CS_OFFL_SIR_GOPM_2_20220101T232729_20220101T235146_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPM_2_20220101T154665_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GO	CS_OFFL_SIR_GOPM_2_20220101T222124_20220101T222409_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Rope Shaper Shaper Range and Backscatter Quality Flags have been Altimeter Range Rope Shaper Range Rope Shaper Range Rope Rope Rope Rope Rope Rope Rope Rop	CS_OFFL_SIR_GOPM_2_20220101T223103_20220101T225728_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records CS_OFFL_SIR_GOPM_2_20220101T232018_20220101T232711_C001 CS_OFFL_SIR_GOPM_2_20220101T232018_20220101T232711_C001 CS_OFFL_SIR_GOPM_2_20220101T232719_20220101T232711_C001 CS_OFFL_SIR_GOPM_2_20220101T232729_20220101T235146_C001 CS_OFFL_SIR_GOPM_2_20220101T232729_20220101T235146_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CCG_Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPM_2_20220101T154900_20220101T155139_C001 CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPM_2_20220101T1546352_20220101T154645_C001 CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPM_2_20220101T1546352_20220101T154645_C001 CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_GOPM	CS_OFFL_SIR_GOPM_2_20220101T225840_20220101T230052_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20220101T232729_20220101T235146_C001 CS_OFFL_SIR_GOPM_2_20220101T232729_20220101T235146_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPM_2_20220101T154639_20220101T155139	CS_OFFL_SIR_GOPM_2_20220101T230122_20220101T230424_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_GOPN_2_20220101T151031_20220101T151422_C001 CS_OFFL_SIR_GOPN_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPN_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T15582_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T15582_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T15582_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155139_C001 CS_OFFL_SIR_GO	CS_OFFL_SIR_GOPM_2_20220101T232018_20220101T232711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPN_2_20220101T151031_20220101T154645_C001 Backscatter Quality CS_OFFL_SIR_GOPN_2_20220101T154639_20220101T154645_C001 CS_OFFL_SIR_GOPN_2_20220101T154639_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T155139_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T155552_20220101T150016_C001 CS_OFFL_SIR_GOPN_2_20220101T150016_C001 CS_OFFL_SIR_GOPN_	CS_OFFL_SIR_GOPM_2_20220101T232729_20220101T235146_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimeter Range and Backscatter Quality Flags have been set occan altimete	CS_OFFL_SIR_GOPN_2_20220101T151031_20220101T151422_C001		
CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPN_2_20220101T154639_20220101T154645_C001		
	CS_OFFL_SIR_GOPN_2_20220101T154900_20220101T155139_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPN_2_20220101T185852_20220101T190016_C001		

CS_OFFL_SIR_GOPN_2_20220101T204508_20220101T204812_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220101T141749_20220101T141820_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220101T182740_20220101T182818_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220101T195602_20220101T195852_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_GOPR_2_20220101T202454_20220101T202752_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220101T220213_20220101T220400_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_GOPR_2_20220101T221429_20220101T221815_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

91

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220101T000529_20220101T001034_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_20220101T004855_20220101T005147_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_20220101T020657_20220101T021239_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_20220101T022737_20220101T022948_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_20220101T030459_20220101T030839_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_20220101T032354_20220101T032946_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_20220101T041638_20220101T041907_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_20220101T045351_20220101T045452_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_20220101T054623_20220101T054753_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_20220101T055642_20220101T055805_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_20220101T064609_20220101T065008_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_20220101T073521_20220101T073638_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_20220101T075502_20220101T075556_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_20220101T082503_20220101T082710_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_20220101T090532_20220101T090853_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_20220101T093549_20220101T093917_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_20220101T105308_20220101T105418_C001 and Ba Altimet PLRM CS_OFFL_SIR_GOPN_2_20220101T113147_20220101T113248_C001 Altimet PLRM Ocean and Ba Altimet PLRM Ocean and Ba Altimet PLRM	ter Range and Backscatter Quality Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter Range and Backscatter Quality Altimeter Range, SSHA, SWH ackscatter Quality Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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 The Ocean Altimeter Range, SSHA, SWH 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_20220101T113147_20220101T113248_C001 and Ba Altimet PLRM Ocean and Ba CS_OFFL_SIR_GOPN_2_20220101T113147_20220101T113148_C001 and Ba CS_OFFL_SIR_GOPN_2_20220101T121422_20220101T121495_C001	ackscatter Quality PLRM, OCOG ter Range and Backscatter Quality I n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR GORN 2 20220101T121422 20220101T121605 C001	ackscatter Quality PLRM, OCOG ter 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
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR CORN 2 20220101T144920 20220101T145442 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR GOPN 2 20220101T162934 20220101T163306 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR CORN 2 20220101T1719F6 20220101T172014 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIP GOPN 2 20220101T195954 20220101T200018 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG iter 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
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR GOPN 2 20220101T200815 20220101T200951 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	G Altimeter Range Quality PLRM, G Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR CORN 2 20220101T221815 20220101T222122 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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 OFFI SIR GOPN 2 20220101T231517 20220101T231853 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter 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 OFFI SIR GOPN 2 20220101T235848 20220102T000122 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20211231T235949_20220101T000529_C001 and Ba Altimet 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 OFFI SIR CORP 2 20220101T014752 20220101T015222 C001	n Altimeter Range, SSHA, SWH ackscatter Quality PLRM, OCOG ster Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPR_2_20220101T015354_20220101T015437_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20220101T023944_20220101T024035_C001 CS_OFFL_SIR_GOPR_2_20220101T025539_20220101T025834_C001 CS_OFFL_SIR_GOPR_2_20220101T025539_20220101T025834_C001 CS_OFFL_SIR_GOPR_2_20220101T031707_20220101T032325_C001 CS_OFFL_SIR_GOPR_2_20220101T031707_20220101T032325_C001 CS_OFFL_SIR_GOPR_2_20220101T031707_20220101T032325_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCO	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords I Backscatter Quality Flags have been set for one or lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220101T023944_20220101T024035_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20220101T025539_20220101T025834_C001 CS_OFFL_SIR_GOPR_2_20220101T031707_20220101T032325_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Qu	er Range and Backscatter Quality Flags have been ords I Backscatter Quality Flags have been set for one or tange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_202201011025539_202201011025834_C001 OCOG Backscatter Quality OCGB Backscatter Quality more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	iange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20220101T031707_20220101T032325_C001 and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality PLRM, ocog and Backscatter PLRM, ocog and Backscatter Quality PLRM, ocog and Backscatter PLRM, o	er Range and Backscatter Quality Flags have been
PLRM set for one or more reco	
CS_OFFL_SIR_GOPR_2_20220101T032946_20220101T033226_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and the OCOG Altimeter Set for one or more reco	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords
	tange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
CS_OFFL_SIR_GOPR_2_20220101T063315_20220101T063436_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20220101T063640_20220101T064609_C001 Altimeter Range and Backscatter Quality PLRM and the OCOG Altimeter Set for one or more reco	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been lords
CS_OFFL_SIR_GOPR_2_20220101T080946_20220101T081257_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords
CS_OFFL_SIR_GOPR_2_20220101T082710_20220101T082815_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords
CS_OFFL_SIR_GOPR_2_20220101T094622_20220101T094939_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
CS_OFFL_SIR_GOPR_2_20220101T100551_20220101T100734_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
CS_OFFL_SIR_GOPR_2_20220101T114619_20220101T114754_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20220101T125135_20220101T125349_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	l Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20220101T130718_20220101T130819_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and more records	Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20220101T131013_20220101T131348_C001 Altimeter Range and Backscatter Quality PLRM and the OCOG Altimete Set for one or more reco	lange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been oords
	tange, SSHA, SWH and Backscatter Quality Flags er Range and Backscatter Quality Flags have been ords

CS_OFFL_SIR_GOPR_2_20220101T132302_20220101T132318_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_20220101T135924_20220101T140015_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_20220101T145443_20220101T150137_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_20220101T155139_20220101T155301_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_20220101T163306_20220101T163406_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_20220101T163407_20220101T164216_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_20220101T173032_20220101T173302_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_20220101T181000_20220101T181740_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_20220101T181817_20220101T181944_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_20220101T182045_20220101T182217_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_20220101T184921_20220101T185205_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_20220101T190931_20220101T191255_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_20220101T194656_20220101T194753_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_20220101T194928_20220101T195602_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_20220101T195602_20220101T195852_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_20220101T202454_20220101T202752_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_20220101T212728_20220101T213502_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_20220101T214145_20220101T214528_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_20220101T221429_20220101T221815_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_20220101T230424_20220101T230512_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_20220101T230920_20220101T231359_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_20220101T231359_20220101T231517_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_20220101T235146_20220101T235847_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

 $\label{lem:currently} \textbf{Currently, there are several common flags raised in the Level 2 products, which are summarised below.}$

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

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

0

148

6.2 P2P Product Header Analysis

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

Number of products with errors:

Ω

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:

Λ

6.4 P2P Auxiliary Correction Error Check

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

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

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

30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20211231T231417_20220101T000355_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T000355_20220101T005332_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T005332_20220101T014310_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220220101T014310_20220101T023247_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220101T023247_20220101T032224_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T032224_20220101T041201_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20220101T041201_20220101T050139_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T050139_20220101T055116_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T055116_20220101T064054_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T064054_20220101T073031_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T073031_20220101T082008_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T082008_20220101T090946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20220101T090946_20220101T095923_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220220101T095923_20220101T104900_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20220101T104900_20220101T113838_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_2_20220101T113838_20220101T122815_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T122815_20220101T131752_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T131752_20220101T140729_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T140729_20220101T145707_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T145707_20220101T154644_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T154644_20220101T163622_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T163622_20220101T172559_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T172559_20220101T181537_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T181537_20220101T190514_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T190514_20220101T195451_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T195451_20220101T204429_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T204429_20220101T213406_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records		
CS_OFFL_SIR_GOP_2_20220101T213406_20220101T222343_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T222343_20220101T231321_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_2_20220101T231321_20220102T000258_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records		

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220220101T055116_20220101T064054_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

30

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	188	188	3	185	0
SIR_GOPR1B	117	117	0	117	0
SIR_GOPN1B	99	99	2	97	0
SIR_GOPM_2	188	188	131	57	0
SIR_GOPR_2	117	117	31	84	2
SIR_GOPN_2	99	99	38	60	1
SIR GOP P2P	29	29	0	26	3

7.1 QCC Errors

Number of QCC reports with errors:

6

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPN_2	1	1	1	1							
SIR_GOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR GOP 2	3	3	3	3							

Fest 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

2208

Total number of occurrences of each warning

	Total name of obtaining								
	Product Type BCSHNCDF IOHHMOOR		MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD		
Ī	SIR_GOPM1B	185	0	0	0	0	0	0	
	SIR_GOPM_2	0	0	41	40	0	42	0	
	SIR_GOPN1B	95	0	0	0	0	0	0	
	SIR_GOPN_2	0	1	8	33	5	23	26	
	SIR_GOPR1B	115	0	0	0	0	0	0	
	SIR GOPR 2	0	2	33	54	3	31	21	

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	34	0	30	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	17	1	0	0	23	0	32
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	9	4	0	52	0	63	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	27	0	0	9	23	0	4
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	26	15	40	54	29
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	54	0	1	69	30	13

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	RWTCONCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_GOPM1B	0	0	0	0	1	0	0
SIR_GOPM_2	34	0	1	0	1	0	0
SIR_GOPN1B	0	0	0	0	0	0	49
SIR_GOPN_2	26	31	13	1	0	1	0
SIR_GOPR1B	0	0	0	0	0	0	116
SIR GOPR 2	45	54	0	0	0	6	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR GOP 2	19	27	29	8	28	16	27

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR GOP 2	4	18	29	24	20		19

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	RWTCONCDF	SPHLPQWNCDF	•
SIR_GOP_2_	26	28	19	12	1	29	

Fest Description Key:								
Abbreviation	Test name	Details						
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter						
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)						
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees						
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees						
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only						
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean						
	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						

RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RWTCONCDF	RangeWetTroposphericCorrectionOceanNetCDF	The Wet tropospheric correction should be between -500mm and -1mm (or missing) for surface type = ocean - NetCDF
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

L1B and L2 Product name

P2P Product name
CS_OFFL_SIR_GOP_2_20220101T231321_20220102T000258_C002