

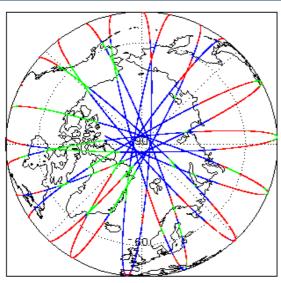
1. Overview

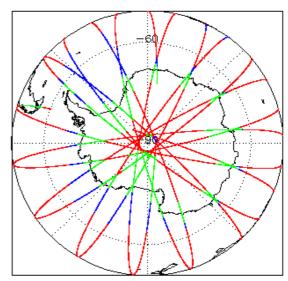
Report Production:	03-Feb-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP)	

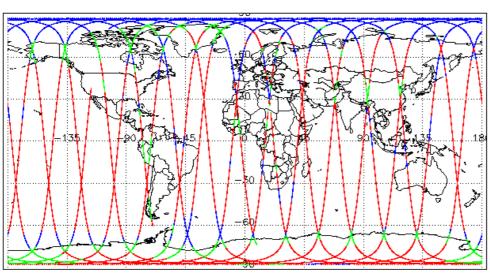
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

N	Mission / Instrument News	
	04-Jan-2022	None
	05-Jan-2022	None
	06-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:

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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	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20220105T074212_20220105T074542_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_20220105T011420_20220105T012342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220105T020831_20220105T022258_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220105T080950_20220105T081307_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20220105T120143_20220105T121700_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220105T000138_20220105T000258_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220105T014051_20220105T014157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220105T095121_20220105T095357_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220105T130702_20220105T130748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220105T130959_20220105T131214_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20220105T231124_20220105T231514_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T054008_20220105T054248_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T071943_20220105T072238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T075945_20220105T080324_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T094234_20220105T094604_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T122819_20220105T123417_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T131215_20220105T131900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T195212_20220105T195513_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T212356_20220105T213112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20220105T213112_20220105T213315_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors: 54 Product	Test Failed	Description
CS OFFL SIR GOPM 2 20220105T120050 20220105T120138 C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one
CS_OFFL_SIR_GOPM_2_20220105T163828_20220105T163917_C001	Mean Dynamic Topography (1)	or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20220105T000138_20220105T000258_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_20220105T004426_20220105T004755_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_20220105T014051_20220105T014157_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_20220105T022354_20220105T022552_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_20220105T032005_20220105T032549_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_20220105T040327_20220105T040445_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_20220105T054459_20220105T054653_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 (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20220105T072238_20220105T072603_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_20220105T082123_20220105T082359_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_20220105T090141_20220105T090502_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_20220105T095121_20220105T095357_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_20220105T104904_20220105T105028_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_20220105T113156_20220105T113259_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_20220105T122617_20220105T122819_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_20220105T130959_20220105T131215_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_20220105T141305_20220105T141716_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_20220105T144543_20220105T145048_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_20220105T154540_20220105T154754_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_20220105T162334_20220105T162912_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_20220105T180151_20220105T180609_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20220105T185507_20220105T185632_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_20220105T194335_20220105T194531_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_20220105T203438_20220105T203604_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_20220105T204118_20220105T204421_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_20220105T221443_20220105T221748_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_20220105T222021_20220105T222533_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_20220105T231124_20220105T231514_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_20220105T235459_20220105T235733_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_20220104T235944_20220105T000138_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_20220105T004301_20220105T004426_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_20220105T013408_20220105T013529_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_20220105T013532_20220105T013604_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_20220105T013635_20220105T014051_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_20220105T031430_20220105T032005_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_20220105T045521_20220105T050024_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_20220105T063241_20220105T064226_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20220105T081307_20220105T082123_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_20220105T095357_20220105T100140_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_20220105T113300_20220105T114013_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_20220105T120138_20220105T120143_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_20220105T130339_20220105T130702_C001	Mean Sea Surface (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 Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPR_2_20220105T131215_20220105T131900_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_20220105T145048_20220105T145611_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_20220105T162912_20220105T163211_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_20220105T163211_20220105T163828_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_20220105T180609_20220105T181350_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_20220105T194531_20220105T195212_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_20220105T195212_20220105T195513_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_20220105T212356_20220105T213112_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_20220105T213112_20220105T213315_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_20220105T230534_20220105T231009_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_20220105T231009_20220105T231124_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_20220105T074212_20220105T074542_C001		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_20220105T000258_20220105T000535_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_20220105T000710_20220105T002405_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_20220105T002608_20220105T004036_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_20220105T005055_20220105T005505_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_20220105T005652_20220105T010928_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_20220105T011044_20220105T011219_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_20220105T011420_20220105T012342_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_20220105T015208_20220105T020130_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_20220105T020830_20220105T022258_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_20220105T022553_20220105T023408_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_20220105T023625_20220105T025242_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_20220105T025538_20220105T025749_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_20220105T033505_20220105T033847_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_20220105T033849_20220105T040215_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_20220105T040445_20220105T040647_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_20220105T040727_20220105T041239_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_20220105T041526_20220105T044040_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_20220105T051234_20220105T051243_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_20220105T051254_20220105T054007_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_20220105T054409_20220105T054458_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_20220105T054653_20220105T055257_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_20220105T055428_20220105T062241_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_20220105T063100_20220105T063240_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_20220105T064603_20220105T071942_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_20220105T072603_20220105T073129_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_20220105T073329_20220105T073921_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_20220105T080950_20220105T081307_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_20220105T082605_20220105T083405_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_20220105T083650_20220105T085909_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
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CS_OFFL_SIR_GOPM_2_20220105T090502_20220105T090607_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_20220105T091223_20220105T093157_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_20220105T100417_20220105T103745_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_20220105T104022_20220105T104506_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_20220105T104526_20220105T104903_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_20220105T105608_20220105T112736_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_20220105T114745_20220105T115445_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_20220105T115927_20220105T120048_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_20220105T120143_20220105T121700_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_20220105T121849_20220105T122405_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_20220105T122425_20220105T122437_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_20220105T122441_20220105T122617_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_20220105T123417_20220105T124747_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_20220105T125152_20220105T130155_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_20220105T132926_20220105T133824_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_20220105T134127_20220105T135555_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_20220105T135816_20220105T140317_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_20220105T140342_20220105T140352_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_20220105T140355_20220105T140457_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_20220105T141152_20220105T141305_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_20220105T141716_20220105T142430_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_20220105T142857_20220105T143340_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_20220105T143624_20220105T144211_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_20220105T145715_20220105T150122_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_20220105T150142_20220105T150151_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_20220105T150407_20220105T150411_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

Comparison Com			
Decision Capity Service on the record	CS_OFFL_SIR_GOPM_2_20220105T151229_20220105T153524_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Co. OFTL. SRI COPM_2 2020105110409_20001 Co. OFTL. SRI COPM_2 20201051110409_20001 Co. OFTL. SRI COPM_2 2020105110409_20001 Co. OFTL. SRI COPM_2 2020105	CS_OFFL_SIR_GOPM_2_20220105T153848_20220105T154235_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
### OPPL_SPE_COPPL_2_20201007114829_20201007119329_CDB1 ORL OPPL_SPE_COPPL_2_20201007114829_20201007119329_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_20201007117450_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_20201007117450_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_2020100717450_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_2020100717450_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_20201007112830_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007114839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007118839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007118839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007118839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007118839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007118839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_20201007118839_2020100713293_CDB1 ORL OPPL_SPE_COPPL_2_2020100713984_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_2020100713985_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_2020100713985_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_2020100713985_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_20201007139393_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_20201007139393_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_20201007139393_202201007139203_CDB1 ORL OPPL_SPE_COPPL_2_20201007139393_202201007139203_CDB1	CS_OFFL_SIR_GOPM_2_20220105T154256_20220105T154539_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Ed., GFPL_SIR_GOPM_2_20201167119692_20220107119630_COID CG_GFPL_SIR_GOPM_2_2020116717969_20220107172930_COID CG_GFPL_SIR_GOPM_2_2020116717969_20220107172930_COID CG_GFPL_SIR_GOPM_2_2020116717969_20220107172930_COID CG_GFPL_SIR_GOPM_2_2020116717969_20220107172930_COID CG_GFPL_SIR_GOPM_2_2020116717969_20220107172930_COID CG_GFPL_SIR_GOPM_2_2020116717969_2022010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_2022010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_2022010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_2022010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_2022010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_2022010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_202010719690_COID CG_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CG_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CG_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CG_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CC_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CC_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CC_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CC_GFPL_SIR_GOPM_2_20202116717969_202010719900_COID CC_GFPL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20220105T154851_20220105T161734_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Badecatine Cuality CS_OFFL_SIR_GOPM_2_202201051172545_20220105119532_CO01 COOS Alteriver Range Could, COOS Alteriver Range and Backcastler Cuality Flags have been a function of more records CS_OFFL_SIR_GOPM_2_202201051172542_202201051180152_CO01 CSG_OFFL_SIR_GOPM_2_202201051180442_202201051180441_CO01 CSG_OFFL_SIR_GOPM_2_202201051180442_202201051180442_CO01 CSG_OFFL_SIR_GOPM_2_202201051180442_202201051180442_CO01 CSG_OFFL_SIR_GOPM_2_202201051180422_202201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051180428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051180428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051180428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051180428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051180428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051180428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190428_20201051190428_CO01 CSG_OFFL_SIR_GOPM_2_202201051190418_C001005100510051005100510051005100510051	CS_OFFL_SIR_GOPM_2_20220105T164925_20220105T171453_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Sadeceater Quality CS OFFL SIR GOPM 2 20220105119364 20220105110305 CO01 CS OFFL SIR GOPM 2 20220105110364 20220105110200 CO01 CS OFFL SIR GOPM 2 20220105110364 20220105110200 CO01 CS OFFL SIR GOPM 2 20220105110364 20220105110200 CO01 CS OFFL SIR GOPM 2 20220105110364 20220105110360 CO01 CS OFFL SIR GOPM 2 20220105110360 CO02005110360 CO01 CS OFFL SIR GOPM 2 20220105110360 CO01 CS OFFL SIR GOPM 2 20220105110360 CO02005110360 CO01 CS OFFL SIR GOPM 2 20220105110360 CO01 CS OFFL SIR GOPM 2 2	CS_OFFL_SIR_GOPM_2_20220105T171630_20220105T172150_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and the OCODA Altimeter Plange and Backscatter Quality Plags have been as for one or more records CS_OFFL_SIR_GOPM_2_20220105T181844_20220105T182055_0001 CS_OFFL_SIR_GOPM_2_20220105T18442 20220105T184421_0001 CS_OFFL_SIR_GOPM_2_20220105T184422_20220105T184421_0001 CS_OFFL_SIR_GOPM_2_20220105T184422_20220105T184421_0001 CS_OFFL_SIR_GOPM_2_20220105T184422_20220105T184421_0001 CS_OFFL_SIR_GOPM_2_20220105T184422_20220105T184421_0001 CS_OFFL_SIR_GOPM_2_20220105T184422_20220105T184422_0001 CS_OFFL_SIR_GOPM_2_20220105T184422_20220105T184423_0001 CS_OFFL_SIR_GOPM_2_20220105T184423_20220105T184418_0001 CS_OFFL_SIR_GOPM_2_20220105T124218_20220105T242118_0001 CS_OFFL_SIR_GOPM_2_20220105T24218_20220105T24218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T220329_001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T21218_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T212828_0001 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T212828_0001 CC_OFFL_SIR_GOPM_2_20220105T212828_000105T210031_0001 CC_OFFL_SIR_GOPM_2_20220105T212828_0	CS_OFFL_SIR_GOPM_2_20220105T172156_20220105T172523_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Cuality CS_OFFL_SIR_GOPM_2_20220105T184612_20220105T184431_COO1 CS_OFFL_SIR_GOPM_2_20220105T184622_20220105T184621_COO1 CS_OFFL_SIR_GOPM_2_20220105T184622_20220105T189428_COO1 CS_OFFL_SIR_GOPM_2_20220105T185632_20220105T194429_COO1 CS_OFFL_SIR_GOPM_2_20220105T195632_20220105T194429_COO1 CS_OFFL_SIR_GOPM_2_20220105T195632_20220105T194429_COO1 CS_OFFL_SIR_GOPM_2_20220105T195632_20220105T195632_COO20105T195633_COO20105T195633_	CS_OFFL_SIR_GOPM_2_20220105T172854_20220105T180150_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Cuality. COCG Affertee Range and Backscatter Cuality Flags have been Affertee Range. SPA. SWH and Backscatter Cuality Flags have been Affertee Range. SPA. SWH and Backscatter Cuality Flags have been Affertee Range. SPA. SWH and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality. COCG Affertee Range and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality. COCG Affertee Range and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality. COCG Affertee Range and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality. COCG Affertee Range and Backscatter Cuality Flags have been Statement Range. SPA. SWH and Backscatter Cuality. COCG Affertee Range and Backscatter Cuality. Plags have been State Cock. C	CS_OFFL_SIR_GOPM_2_20220105T181844_20220105T182205_C001	ŭ ,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, COCO Alterneter Range and Backscatter Quality Flags have been still recommendate to the control of the force of more records. CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190426_CO01 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190426_CO01 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190426_CO01 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190426_CO01 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190603_CO01 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190603_CO01 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T190603_CO01 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T203056_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T203065_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T203065_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T203065_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T203065_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T203335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T203335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T203335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T203335_CO01 CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T20335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T20335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T20335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T20335_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T21382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T221382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T221382_CO01 CS_OFFL_SIR_GOPM_2_20220105T214063_20220105T221382_CO01 CS_OFFL_SIR_GOPM_2_20220105T22005_20220105T221382_CO01 CS_OFFL_SIR_GOPM_2_20220105T22005_2022005T22005_202005T22005_202005T22005_202005T22	CS_OFFL_SIR_GOPM_2_20220105T182612_20220105T184431_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscater Quality CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T194129_C001 CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T194129_C001 CS_OFFL_SIR_GOPM_2_20220105T195513_20220105T19563_C001 CS_OFFL_SIR_GOPM_2_20220105T195513_20220105T19563_C001 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T203205_20220105T2034118_C001 CS_OFFL_SIR_GOPM_2_20220105T203205_20220105T204118_C001 CS_OFFL_SIR_GOPM_2_20220105T203205_20220105T204118_C001 CS_OFFL_SIR_GOPM_2_20220105T203205_20220105T204118_C001 CS_OFFL_SIR_GOPM_2_20220105T203205_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212130_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T212130_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213521_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213521_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213521_C001 CS_OFFL_SIR_GOPM_2_20220105T213517_20220105T213520_C001 CS_OFFL_SIR_GOPM_2_20220105T213517_20220105T213520_C001 CS_OFFL_SIR_GOPM_2_20220105T213517_20220105T213520_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T223740_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T2227	CS_OFFL_SIR_GOPM_2_20220105T184822_20220105T185421_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20220105T195513_20220105T195603_CO01 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_CO01 CS_OFFL_SIR_GOPM_2_20220105T203605_20220105T204118_CO01 CS_OFFL_SIR_GOPM_2_20220105T203605_20220105T204118_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T2215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225842_CO01 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225842_CO01 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T225842_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225838_CO01 CCS_OFFL_SIR_GOPM_2_20220105T225747_	CS_OFFL_SIR_GOPM_2_20220105T185632_20220105T190428_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been store nor more records CS_OFFL_SIR_GOPM_2_20220105T20215_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T203605_20220105T203359_C001 CS_OFFL_SIR_GOPM_2_20220105T203605_20220105T204118_C001 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T204118_C001 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T204118_C001 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T2041933_C001 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T213516_20220105T213521_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213521_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213521_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T221382_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T221382_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T221382_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T225277_20220105T221382_C001 CS_OFFL_SIR_GOPM_2_20220105T225277_20220105T221382_C001 CS_OFFL_SIR_GOPM_2_20220105T225277_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T225277_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225980_20220105T225580_20220105T225	CS_OFFL_SIR_GOPM_2_20220105T190816_20220105T194129_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20220105T203605_20220105T204118_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T204118_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T2112149_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213621_CO01 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T222700_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T222700_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T227748_20220105T225747_CO01 CO	CS_OFFL_SIR_GOPM_2_20220105T195513_20220105T195603_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_CO01 CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T21198_CO01 Altimeter Range and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T212149_CO01 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213621_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_CO01 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T22138_CO01 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T222020_CO01 CS_OFFL_SIR_GOPM_2_20220105T222774_CO01 CS_OFFL_SIR_GOPM_2_20220105T222774_CO01 CS_OFFL_SIR_GOPM_2_20220105T222774_CO01 CS_OFFL_SIR_GOPM_2_20220105T222774_CO01 CS_OFFL_SIR_GOPM_2_20220105T222770_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225938_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225747_CO01 CS_OFFL_SIR_GOPM_2_20220105T225748_20220105T225938_CO01	CS_OFFL_SIR_GOPM_2_20220105T202215_20220105T203359_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220105T21218_20220105T2119S_CO01 Altimeter Range and Backscatter Quality, COOG Altimeter Range and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T213621_C001 CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213621_C001 CS_OFFL_SIR_GOPM_2_20220105T21517_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T21517_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T222000_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225747_C001 COCOA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store on or more records CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store on or more records CCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store on or more records CCAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store on or more records CCAN Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_GOPM_2_20220105T203605_20220105T204118_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220105T221748_20220105T222020_C001 CS_OFFL_SIR_GOPM_2_20220105T2227748_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225700_20220105T225749_C001 COCAA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been store one or more records COCAA Altimeter Range Altime	CS_OFFL_SIR_GOPM_2_20220105T204704_20220105T210933_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215021_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T22200_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T22200_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_C001 And Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range And Backscatter Quality Flags have been store one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T222020_C001 CS_OFFL_SIR_GOPM_2_20220105T225700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_C001 COCOA Altimeter Range and Backscatter Quality Flags have been store one or more records COCOA Altimeter Range and Backscatter Quality Flags have been store one or more records CCOA Altimeter Range and Backscatter Quality Flags have been store one or more records CCOA Altimeter Range and Backscatter Quality Flags have been store one or more records CCOA Altimeter Range and Backscatter Quality Flags have been store one or more records CCOA Altimeter Range and Backscatter Quality Flags have been store one or more records CCOA Altimeter Range and Backscatter Quality Flags have been store one or more records CCOA Altimeter Range	CS_OFFL_SIR_GOPM_2_20220105T211218_20220105T212149_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T221138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T221138_C001 CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T2200_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T2200_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225938_C001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been stor one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been stor one or more records The OCGA Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_GOPM_2_20220105T213516_20220105T213621_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20220105T22012_20220105T221138_C001 CS_OFFL_SIR_GOPM_2_20220105T22012_20220105T222020_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T222020_C001 CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T222020_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_C001 Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and the OCOG Altim	CS_OFFL_SIR_GOPM_2_20220105T214623_20220105T215021_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T222020_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_C001 and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20220105T215217_20220105T215824_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality Ocean 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 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 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 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 altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter	CS_OFFL_SIR_GOPM_2_20220105T220012_20220105T221138_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20220105T221748_20220105T222020_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20220105T222700_20220105T225747_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
ritanico ritango and pasicolatici quality jet for one or more records	CS_OFFL_SIR_GOPM_2_20220105T225800_20220105T225938_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_20220105T231603_20220105T234759_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPM_2_20220105T235733_20220105T235929_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T113156_20220105T113259_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T194146_20220105T194242_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T235459_20220105T235733_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_20220105T005642_20220105T005652_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_20220105T014340_20220105T014526_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_20220105T041520_20220105T041526_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_20220105T055425_20220105T055428_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_20220105T115446_20220105T115927_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_20220105T163211_20220105T163828_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

80

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20220105T000536_20220105T000652_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_20220105T004129_20220105T004300_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_20220105T012343_20220105T012545_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_20220105T014051_20220105T014157_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_20220105T014527_20220105T014643_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_20220105T020309_20220105T020830_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_20220105T032005_20220105T032549_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_20220105T044040_20220105T044139_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_20220105T045322_20220105T045352_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_20220105T054459_20220105T054653_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_20220105T072238_20220105T072603_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_20220105T073129_20220105T073246_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_20220105T075149_20220105T075208_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_20220105T090141_20220105T090502_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPN_2_20220105T091021_20220105T091144_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPN_2_20220105T093158_20220105T093524_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPN_2_20220105T095121_20220105T095357_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T113156_20220105T113259_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records
CS_OFFL_SIR_GOPN_2_20220105T130959_20220105T131215_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fand the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T132638_20220105T132926_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T142430_20220105T142851_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T144543_20220105T145048_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T150647_20220105T151046_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T153535_20220105T153848_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T154540_20220105T154754_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T162334_20220105T162912_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T164833_20220105T164924_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T172523_20220105T172646_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T180151_20220105T180609_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T181350_20220105T181426_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T194146_20220105T194242_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fand the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T194335_20220105T194531_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T201629_20220105T201705_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPN_2_20220105T203438_20220105T203604_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fand the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPN_2_20220105T235459_20220105T235733_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fand the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20220105T004301_20220105T004426_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20220105T010928_20220105T011043_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20220105T011220_20220105T011340_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20220105T013532_20220105T013604_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for more records

CS_OFFL_SIR_GOPR_2_20220105T013635_20220105T014051_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20220105T014340_20220105T014526_C001	PLRM 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_20220105T014644_20220105T014817_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_20220105T025750_20220105T025923_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_20220105T031306_20220105T031430_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_20220105T032549_20220105T032811_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_20220105T040215_20220105T040327_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_20220105T045117_20220105T045322_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_20220105T045521_20220105T050024_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_20220105T062910_20220105T063100_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_20220105T063241_20220105T064226_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_20220105T071943_20220105T072238_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_20220105T080611_20220105T080845_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_20220105T081307_20220105T082123_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_20220105T082359_20220105T082403_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_20220105T083406_20220105T083650_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_20220105T085909_20220105T090141_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_20220105T095357_20220105T100140_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_20220105T100251_20220105T100417_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_20220105T113300_20220105T114013_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_20220105T114252_20220105T114745_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_20220105T122819_20220105T123417_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_20220105T130339_20220105T130702_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_20220105T130929_20220105T130959_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_20220105T131215_20220105T131900_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_20220105T145048_20220105T145611_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_20220105T145625_20220105T145714_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_20220105T162912_20220105T163211_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_20220105T163211_20220105T163828_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_20220105T172646_20220105T172854_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_20220105T180609_20220105T181350_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_20220105T181426_20220105T181633_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_20220105T181645_20220105T181844_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_20220105T190541_20220105T190816_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_20220105T194242_20220105T194335_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_20220105T194531_20220105T195212_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_20220105T195212_20220105T195513_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_20220105T195718_20220105T195747_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_20220105T201926_20220105T202215_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_20220105T212150_20220105T212257_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_20220105T212356_20220105T213112_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_20220105T213622_20220105T214305_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_20220105T214454_20220105T214507_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_20220105T221138_20220105T221442_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_20220105T222534_20220105T222700_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_20220105T225747_20220105T225800_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_20220105T230534_20220105T231009_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_20220105T231009_20220105T231124_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_20220105T231515_20220105T231603_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_20220105T234759_20220105T235459_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

155

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:

٥

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors: 30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20220104T231030_20220105T000007_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_20220105T000007_20220105T004944_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_20220105T004944_20220105T013922_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_20220105T013922_20220105T022859_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_20220105T022859_20220105T031836_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_20220105T031836_20220105T040814_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_20220105T040814_20220105T045751_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_220220105T045751_20220105T054729_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_20220105T054729_20220105T063706_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_20220105T063706_20220105T072643_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_20220105T072643_20220105T081620_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_20220105T081620_20220105T090558_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_20220105T090558_20220105T095535_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_20220105T095535_20220105T104513_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_20220105T104513_20220105T113450_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_220220105T113450_20220105T122427_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_20220105T122427_20220105T131404_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GCT), 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_20220105T131404_20220105T140342_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_20220105T140342_20220105T145319_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_20220105T145319_20220105T154257_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_20220105T154257_20220105T163234_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_20220105T163234_20220105T172212_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_20220105T172212_20220105T181149_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_20220105T181149_20220105T190126_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_20220105T190126_20220105T195103_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_20220105T195103_20220105T204041_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_20220105T204041_20220105T213018_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_20220105T213018_20220105T221956_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_20220105T221956_20220105T230933_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_20220105T230933_20220105T235910_C002	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

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_220220105T072643_20220105T081620_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: 2

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	204	204	3	201	0
SIR_GOPR1B	121	121	0	121	0
SIR_GOPN1B	102	102	1	100	1
SIR_GOPM_2	204	204	149	55	0
SIR_GOPR_2	121	121	31	88	2
SIR_GOPN_2	101	101	36	65	0
SIR GOP P2P	30	30	0	28	2

7.1 QCC Errors

Number of QCC reports with errors:

- 5

Total number of occurrences of each error	Total	number	of	occurrences	of	each	error
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Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	AISSOPOBHRNC	-	-	-	-
SIR_GOPN1B	0	0	0	0	0	0	1				
SIR_GOPR_2	2	1	2	2	1	2	0				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
CID COD 0	_	0	0	0							

Test Description Key:							
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7					
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7					
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6					
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7					
RRTAISSOPOBHRNCD	RangeRecordTAlStartStopOPOrBlankHRNetCDF	The time value should be between the the record TAI start/stop times of the MPH with a margin of 0.5 s - NetCDF					

7.2 QCC Warnings

Number of QCC reports with warnings

2259

Total number of occurrences of each warning

Total number of occurrences of each warning							
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	201	0	0	0	0	0	0
SIR_GOPM_2	0	0	41	42	0	44	0
SIR_GOPN1B	101	0	0	0	0	0	0
SIR_GOPN_2	0	0	10	34	5	25	26
SIR_GOPR1B	112	0	0	0	0	0	0
SIR_GOPR_2	0	2	33	56	1	29	22

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	35	0	36	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	16	1	0	0	23	0	35
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	11	0	0	55	0	63	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	25	0	0	6	25	0	1
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	30	13	39	55	33
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	59	0	3	64	34	12

	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
Ī	SIR_GOPM1B	0	0	0	0	0	0	0
	SIR_GOPM_2	30	0	1	0	0	0	0
	SIR_GOPN1B	0	0	0	0	0	51	3
	SIR_GOPN_2	25	28	10	0	2	0	0
	SIR_GOPR1B	0	0	0	0	0	121	9
	SIR GOPR 2	40	52	2	2	7	0	0

	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
ſ	SIR GOP 2	16	30	30	6	30	18	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	1	19	30	28	14	30	21
Draduat Type	DESHAONODE	DOWHOEDEDNICDE	DOWNOEDEDDI DMNODE	DOWNOEDNODE	SDHI DOWNODE		

BCSHNCDE	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
Abbreviation	Test name	Details					
Test Description Key:							
5 <u>_</u> 46 <u>-</u> 2_		1.0					
SIR GOP 2	27 30	19	11	30			

Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
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:

1

L1B and L2 Product name

P2P Product name
CS_OFFL_SIR_GOP_2_20220105T230933_20220105T235910_C002