

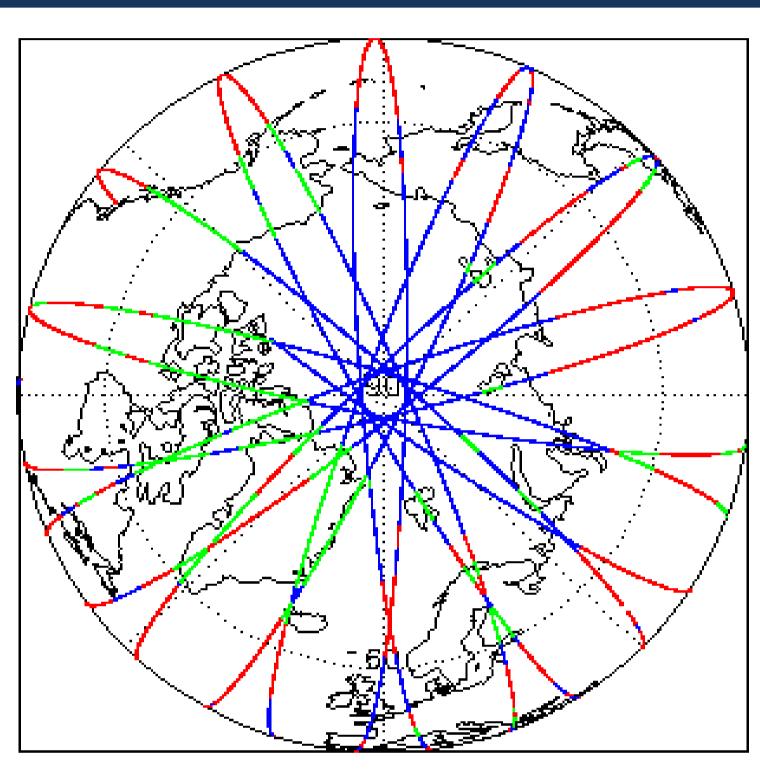
1. Overview

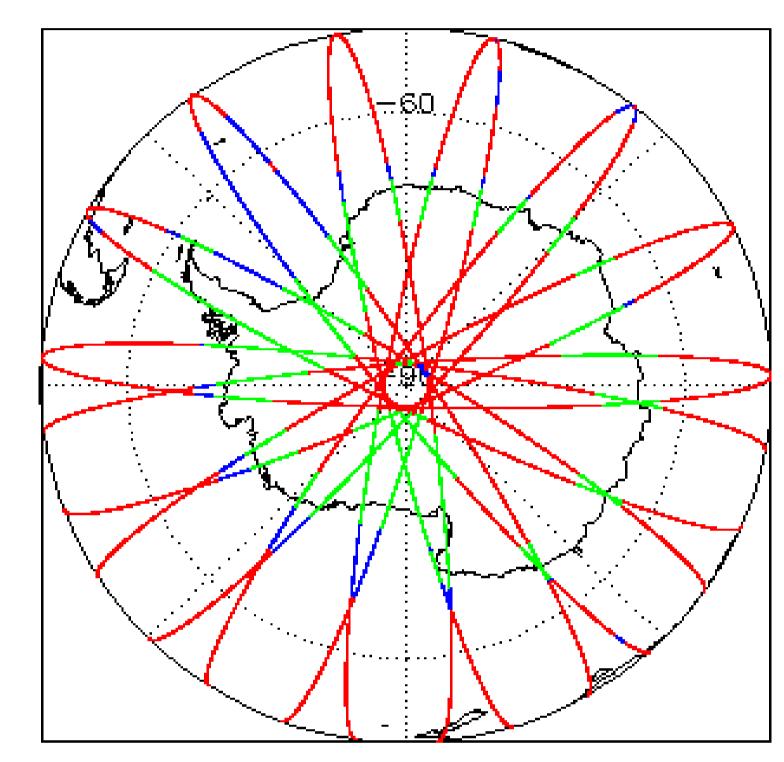
Report Production:	20-Apr-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

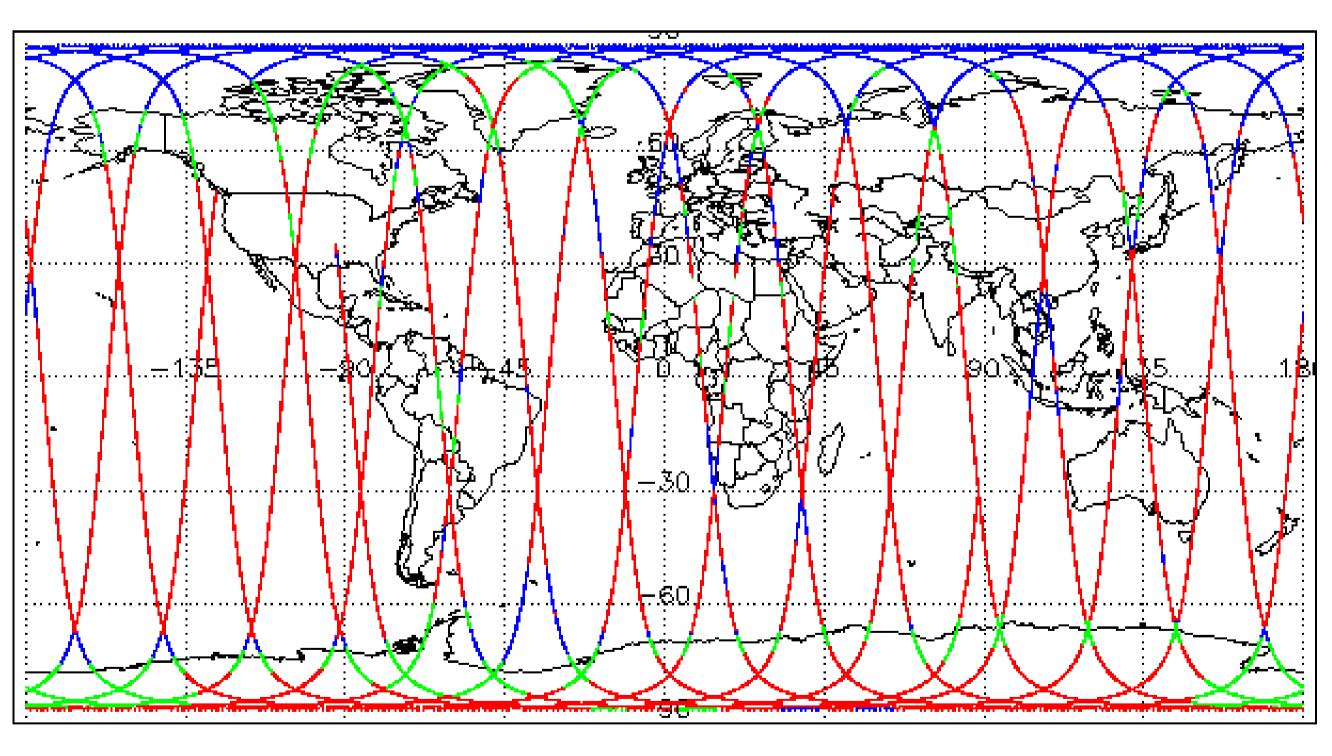
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

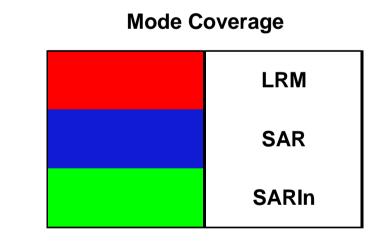
Mission / Instru	iment News
17-Mar-2020	None
18-Mar-2020	None
19-Mar-2020	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the l1b_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:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200318T111221_20200318T111811_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPN1B_20200318T232543_20200318T232550_C001	Cal1 Correction Missing	The Cal1 correction has not been applied

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

15

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200318T084435_20200318T090646_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200318T212332_20200318T213919_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T033802_20200318T033914_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T074500_20200318T074837_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T100326_20200318T100940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T110314_20200318T110523_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T115616_20200318T115814_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T155535_20200318T155628_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T191018_20200318T191103_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T191143_20200318T191427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T191431_20200318T191558_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200318T223155_20200318T223405_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200318T010253_20200318T011224_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200318T141247_20200318T142303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200318T173606_20200318T174714_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

52

Product	Tost Failed	Description
Product CS_OFFL_SIR_GOPN_2_20200318T000910_20200318T001214_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_20200318T001851_20200318T002126_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_20200318T005912_20200318T010121_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_20200318T010122_20200318T010253_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_20200318T023504_20200318T023945_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_20200318T024936_20200318T025030_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_20200318T032837_20200318T033001_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_20200318T051451_20200318T051754_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_20200318T064800_20200318T065107_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_20200318T065351_20200318T065735_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_20200318T082829_20200318T083103_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_20200318T092341_20200318T092458_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200318T100326_20200318T100940_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_20200318T110314_20200318T110523_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_20200318T114549_20200318T114726_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_20200318T124229_20200318T124714_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the IVISS height (solution 1), the IVIEAN Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200318T133406_20200318T133639_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_20200318T150506_20200318T150856_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200318T164448_20200318T164802_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_20200318T182206_20200318T182630_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_20200318T183220_20200318T183337_C001	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_20200318T191143_20200318T191427_C001	Iviean Sea Surrace (1), Iviean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean เกียล (รีริลิ รูปกละอีกู เม่) หมือสูก กรุกสิกติด	There is an error with the iviss neight (solution 1) and the iviean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (Solution 1) and the iviean Dynamic
CS_OFFL_SIR_GOPN_2_20200318T191431_20200318T191558_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean
CS_OFFL_SIR_GOPN_2_20200318T200947_20200318T201133_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_20200318T205401_20200318T205504_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_20200318T214757_20200318T215025_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_20200318T222827_20200318T223134_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200318T223155_20200318T223405_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_20200318T232702_20200318T233105_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_20200318T010253_20200318T011224_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_20200318T023945_20200318T024726_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_20200318T041913_20200318T042547_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_20200318T042547_20200318T042839_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_20200318T055750_20200318T060446_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_20200318T060446_20200318T060703_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_20200318T073903_20200318T074342_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_20200318T074342_20200318T074459_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_20200318T091710_20200318T092220_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_20200318T092220_20200318T092340_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_20200318T105855_20200318T110313_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_20200318T123414_20200318T123449_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_20200318T123449_20200318T124229_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_20200318T141247_20200318T142303_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_20200318T154529_20200318T154708_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_20200318T155629_20200318T160417_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_20200318T173606_20200318T174714_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_20200318T191558_20200318T192349_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_20200318T205504_20200318T210030_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_20200318T210121_20200318T210219_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_20200318T215025_20200318T215259_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_20200318T222346_20200318T222453_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_20200318T223405_20200318T224100_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_20200318T111221_20200318T111811_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors: 105

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200317T234727_20200318T000909_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 OFFE SIR GOPM 2 202003181001214 202003181001610 C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20200318T002207_20200318T005108_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_GOPM_2_20200318T012307_20200318T014841_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_20200318T015001_20200318T015524_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_20200318T015531_20200318T015856_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_20200318T020110_20200318T023504_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_20200318T025920_20200318T031858_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_20200318T032152_20200318T032826_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_20200318T033002_20200318T033802_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_20200318T034043_20200318T041516_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_20200318T042840_20200318T042939_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_20200318T045723_20200318T050755_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_20200318T050935_20200318T051450_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_20200318T052011_20200318T054304_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_20200318T054550_20200318T055518_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_20200318T060830_20200318T061132_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_20200318T062557_20200318T063156_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_20200318T063344_20200318T064701_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_20200318T065108_20200318T065351_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_20200318T065949_20200318T072710_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_20200318T072736_20200318T073033_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_20200318T073123_20200318T073151_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_20200318T073531_20200318T073541_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_20200318T075000_20200318T075655_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_20200318T075714_20200318T082127_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_20200318T083510_20200318T083757_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_20200318T083929_20200318T084344_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_20200318T084435_20200318T090646_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_20200318T092459_20200318T092848_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_20200318T093016_20200318T093211_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_20200318T093403_20200318T094604_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_20200318T095932_20200318T100325_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_20200318T100940_20200318T101215_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_20200318T101237_20200318T101703_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_20200318T101844_20200318T103350_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_20200318T103530_20200318T103813_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_20200318T105101_20200318T105123_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_20200318T111221_20200318T111811_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_20200318T112054_20200318T114513_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_20200318T114727_20200318T115615_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_20200318T115815_20200318T122230_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_20200318T124930_20200318T132428_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_20200318T132943_20200318T133406_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_20200318T133705_20200318T140307_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_20200318T143106_20200318T150330_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_20200318T150857_20200318T151445_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_20200318T151609_20200318T152252_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_20200318T152447_20200318T154003_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_20200318T155355_20200318T155443_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_20200318T160730_20200318T164232_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_20200318T164802_20200318T165315_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_20200318T165453_20200318T165801_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_20200318T170002_20200318T170419_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.

### 1500 1.01 2000/19		Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
Description Color	CS_OFFL_SIR_GOPM_2_20200318T170958_20200318T171421_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DOCATION CONTRICTORY 2 DESCRIPTIONS (2007) 1775 (2007)	CS_OFFL_SIR_GOPM_2_20200318T173035_20200318T173315_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_20200318T174714_20200318T175609_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_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_2222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_2222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_2222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_2222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITYXXII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_222231512244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_22223151244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_22223151244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_22223151244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIITXXIII_22223151244_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIIIXXIII_2223231512444_C001 CS_OPPL_SIR_COPPL_2_AXXXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXII	CS_OFFL_SIR_GOPM_2_20200318T175855_20200318T182120_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. OPTL S. R. COPW 2. 20200318*18509_2000318*115014. COST Cost A Record Paring. SON, SWI	CS_OFFL_SIR_GOPM_2_20200318T182630_20200318T182802_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SR_COM_2_2000391716910_2000391718930_0001 and Sebasation Coality_COSS Alternate Facings and Balacestard Castley CoSS Alternate Facings SSM_SWM and Balacestard Castley CoSS Alternate Facings SSM_SWM and Balacestard Castley CoSS Alternate Facings SSM_SWM and Balacestard Castley Facing Facing and Districtory Costley CoSS Alternate Facings and Balacestard Castley Facing Facing And Districtory Costley Costle	CS_OFFL_SIR_GOPM_2_20200318T182809_20200318T183219_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
So. OFFL SIR GOPN 2 20020019T100E2 2002019T20029 CDD Ocea A Three frago, 39Hb, 59th and Secondard Customer Range and Blockscaler Quality Flags never be affected and the Secondard Customer Range and Blockscaler Quality CDD Code Althree frago, 39Hb, 59th and Secondard Customer Range and Blockscaler Quality CDD Code Althree frago, 39Hb, 59th and Secondard Customer Range and Blockscaler Quality CDD Code Althree frago, 39Hb, 59th and Secondard Customer Range and Blockscaler Quality CDD Code Althree frago, 39Hb, 59th and Secondard Customer Range and Blockscaler Quality CDD Code Althree frago, 39Hb, 59th and Secondard Customer Range and Secondard Custo	CS_OFFL_SIR_GOPM_2_20200318T183410_20200318T185633_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.
SOFFL SIR GOPM 2 20000018T201022 20200318T201015 C001 Ocean Airment Range and Selectation Coulty Flags have be Airment Range and Selectation Coulty and Selectation Coulty and Selectation County and Selectation County and Selectation County and Selectation County County County County County Selectation County County County Selectation County County County Selectation County	CS_OFFL_SIR_GOPM_2_20200318T185728_20200318T190148_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 Backscater Caulity, OCOG Activater Range, SSHA, SVH The Corean Astronater Range and Backscater Quality Rage have been to for one or more vectors. CS. OFFIL. SIR. GOPML 2. 202003187200797, 202003187200713, C001 CS. OFFIL. SIR. GOPML 2. 202003187200797, 202003187200713, C001 CS. OFFIL. SIR. GOPML 2. 202003187200792, 202003187200713, C001 CS. OFFIL. SIR. GOPML 2. 202003187200792, 2020031872007142, C001 CS. OFFIL. SIR. GOPML 2. 202003187200792, 2020031872007142, C001 Astronater Range, Corean Astronater Range, SSHA, SVH 202004 Astronater Range,	CS_OFFL_SIR_GOPM_2_20200318T190621_20200318T190932_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.
und flackbaster Quality, COCO and Burders Range and Buckssater Quality Flags have been to flack port of the process of the pro	CS_OFFL_SIR_GOPM_2_20200318T190932_20200318T191017_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.
GS_OFFL_SIR_GOPM_2_20200318T20019S_20200318T20010LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T20010LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T20017S_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200318T200110LODI CS_OFFL_SIR_GOPM_2_20200	CS_OFFL_SIR_GOPM_2_20200318T192802_20200318T193137_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_20200318T200707_Z12000318T200743_C001 CS_OFFL_SIR_GOPM_2_20200318T200707_Z12000318T200744_C001 CS_OFFL_SIR_GOPM_2_20200318T200720_20200318T200744_C001 CS_OFFL_SIR_GOPM_2_20200318T201724_Z12000318T200745_C001 CS_OFFL_SIR_GOPM_2_20200318T201724_Z12000318T200745_C001 CS_OFFL_SIR_GOPM_2_20200318T201724_Z12000318T200745_C001 CS_OFFL_SIR_GOPM_2_20200318T201724_Z12000318T200745_C001 CS_OFFL_SIR_GOPM_2_20200318T201724_Z12000318T200745_C001 CS_OFFL_SIR_GOPM_2_20200318T201725_C001 CS_OFFL_SIR_GOPM_2_20200318T201725_C001 CS_OFFL_SIR_GOPM_2_20200318T200748_Z0000318T200745_C001 CS_OFFL_SIR_GOPM_2_20200318T210746_Z0000318T210074_C001 CS_OFFL_SIR_GOPM_2_20200318T210074_Z0000318T210074_C001 CS_OFFL_SIR_GOPM_2_20200318T210074_Z0000318T210074_C001 CS_OFFL_SIR_GOPM_2_20200318T210074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_C001 CS_OFFL_SIR_GOPM_2_20200318T2100074_	CS_OFFL_SIR_GOPM_2_20200318T193317_20200318T200006_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_202003187200720_202003187200946_C001 CS_OFFL_SIR_GOPM_2_202003187200720_202003187200946_C001 CS_OFFL_SIR_GOPM_2_202003187201424_202003187201462_C001 CS_OFFL_SIR_GOPM_2_202003187201424_202003187201462_C001 CS_OFFL_SIR_GOPM_2_202003187201805_202003187201482_C001 CS_OFFL_SIR_GOPM_2_202003187201805_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720182_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187204822_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187204801_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187205401_C001 CS_OFFL_SIR_GOPM_2_20200318720529_202003187205401_C001 CS_OFFL_SIR_GOPM_2_202003187210260_202003187210314_C001 CS_OFFL_SIR_GOPM_2_20200318721026_202003187210314_C001 CS_OFFL_SIR_GOPM_2_202003187211157_202003187212129_C001 CS_OFFL_SIR_GOPM_2_202003187211157_202003187212129_C001 CS_OFFL_SIR_GOPM_2_202003187211157_202003187212129_C001 CS_OFFL_SIR_GOPM_2_202003187211157_202003187212129_C001 CS_OFFL_SIR_GOPM_2_202003187211402_202003187214567_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214567_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214567_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214567_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214567_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_202003187214620_C001 CS_OFFL_SIR_GOPM_2_202003187214018_20200	CS_OFFL_SIR_GOPM_2_20200318T200135_20200318T200701_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200318T201424_20200318T201462_C001 CS_OFFL_SIR_GOPM_2_20200318T201424_20200318T201462_C001 CS_OFFL_SIR_GOPM_2_20200318T2014065_20200318T203034_C001 CS_OFFL_SIR_GOPM_2_20200318T201805_20200318T203034_C001 CS_OFFL_SIR_GOPM_2_20200318T201805_20200318T203034_C001 CS_OFFL_SIR_GOPM_2_20200318T203034_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T20529_2020318T20401_C001 CS_OFFL_SIR_GOPM_2_20200318T20529_2020318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T20529_2020318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T210256_2020318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T210256_2020318T210318_C001 CS_OFFL_SIR_GOPM_2_20200318T210325_20200318T210318_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213318_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213318_C001 CS_OFFL_SIR_GOPM_2_20200318T214402_2020318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214402_2020318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214657_C001 CS_OFFL_	CS_OFFL_SIR_GOPM_2_20200318T200707_20200318T200713_C001		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 be at for one or more records. CS_OFFL_SIR_GOPM_2_20200318T201805_20200318T203034_C001 CS_OFFL_SIR_GOPM_2_20200318T20318_20200318T203034_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T20529_20200318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T20529_20200318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T210526_20200318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T210526_20200318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T210526_20200318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T21157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T21157_20200318T213318_C001 CS_OFFL_SIR_GOPM_2_20200318T21157_20200318T213318_C001 CS_OFFL_SIR_GOPM_2_20200318T21157_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214669_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214669_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214669_C001 CS_	CS_OFFL_SIR_GOPM_2_20200318T200720_20200318T200946_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Allmeter Range and Backscatter Quality Flags have be set for one or more records. CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_C001 CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T205229_20200318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T205229_20200318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T210226_20200318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T21318_C001 CS_OFFL_SIR_GOPM_2_20200318T211332_20200318T21318_C001 CS_OFFL_SIR_GOPM_2_20200318T2112332_20200318T21318_C001 CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214637_C0001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214629_C001 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPM_2_20200318T201424_20200318T201452_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.
Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records. CS_OFFL_SIR_GOPM_2_20200318T205229_20200318T205401_C001 CS_OFFL_SIR_GOPM_2_20200318T210226_20200318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T210314_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T213918 C001 CS_OFFL_SIR_GOPM_2_20200318T212332 20200318T213918 C001 CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001 CCOCG Altimeter Range Quality, OCOG Backscatter Quality Altimeter Range and Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records. CCOCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stored for one or more records.	CS_OFFL_SIR_GOPM_2_20200318T201805_20200318T203034_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_20200318T210226_20200318T210314_C001 Backscatter Range Quality, OCOG Backscatter Quality Flags have been so for one or more records. CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T2112332_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 CS_OFFL_SIR_GOPM_2_20200318T21402_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214629_C001 CCS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001 CCS_OFFL_SIR_GOPM_2_202003	CS_OFFL_SIR_GOPM_2_20200318T203118_20200318T204822_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_20200318T211157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T212129_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 CS_OFFL_SIR_GOPM_2_20200318T21402_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001 CCS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214677_C001 CCS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214677_C001 CCS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214629_C001 CCCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stor one or more records. CCCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stor one or more records. CCCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stor one or more records. CCCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stor one or more records. CCCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stor one or more records. CCCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been stor one or more records.	CS_OFFL_SIR_GOPM_2_20200318T205229_20200318T205401_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 set for one or more records. CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001	CS_OFFL_SIR_GOPM_2_20200318T210226_20200318T210314_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001	CS_OFFL_SIR_GOPM_2_20200318T211157_20200318T212129_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_202003181214102_202003181214557_C001 Backscatter Quality Gro one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records. CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001 CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001 Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records.	CS_OFFL_SIR_GOPM_2_20200318T212332_20200318T213918_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_20200318T214618_20200318T214629_C001 Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been some for one or more records.	CS_OFFL_SIR_GOPM_2_20200318T214102_20200318T214557_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality for one or more records.	CS_OFFL_SIR_GOPM_2_20200318T214618_20200318T214629_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA. SWH and Backscatter Quality Flag	CS_OFFL_SIR_GOPM_2_20200318T214637_20200318T214757_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_GOPM_2_20200318T215458_20200318T220545_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_20200318T221201_20200318T222346_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_20200318T224101_20200318T224450_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_20200318T224605_20200318T224640_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_20200318T230255_20200318T231807_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_20200318T232026_20200318T232510_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_20200318T233113_20200318T235831_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_20200318T062349_20200318T062556_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_20200318T082829_20200318T083103_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_20200318T150506_20200318T150856_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_20200318T155049_20200318T155212_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_20200318T200013_20200318T200134_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_20200318T222518_20200318T222619_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_20200318T231808_20200318T232026_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

80

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200318T000910_20200318T001214_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_20200318T001851_20200318T002126_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_20200318T005108_20200318T005307_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_20200318T005912_20200318T010121_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_20200318T011857_20200318T012045_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_20200318T015857_20200318T020017_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_20200318T023504_20200318T023945_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_20200318T043122_20200318T043244_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_20200318T044518_20200318T044702_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_20200318T044921_20200318T045020_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_20200318T051451_20200318T051754_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_20200318T064800_20200318T065107_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_20200318T074500_20200318T074837_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_20200318T083258_20200318T083510_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_20200318T090833_20200318T091052_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_20200318T092341_20200318T092458_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_20200318T100326_20200318T100940_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_20200318T110619_20200318T110847_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_20200318T111059_20200318T111221_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_20200318T111932_20200318T112054_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_20200318T114549_20200318T114726_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_20200318T122653_20200318T122822_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_20200318T132526_20200318T132656_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200318T132833_20200318T132942_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_20200318T133406_20200318T133639_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_20200318T151445_20200318T151609_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_20200318T154003_20200318T154109_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_20200318T155049_20200318T155212_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_20200318T165316_20200318T165430_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_20200318T182206_20200318T182630_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_20200318T183220_20200318T183337_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_20200318T191143_20200318T191427_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_20200318T191431_20200318T191558_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_20200318T200013_20200318T200134_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_20200318T200947_20200318T201133_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_20200318T205401_20200318T205504_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_20200318T210824_20200318T211000_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_20200318T220857_20200318T221201_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_20200318T222827_20200318T223134_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_20200318T231808_20200318T232026_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_20200318T232543_20200318T232550_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_20200318T232702_20200318T233105_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_20200318T023945_20200318T024726_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_20200318T024803_20200318T024935_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_20200318T041638_20200318T041727_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_20200318T041913_20200318T042547_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_20200318T045425_20200318T045722_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_20200318T051755_20200318T052011_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_20200318T055750_20200318T060446_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_20200318T060446_20200318T060703_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_20200318T061132_20200318T061513_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_20200318T073725_20200318T073846_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_20200318T073903_20200318T074342_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_20200318T091710_20200318T092220_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_20200318T094605_20200318T094817_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_20200318T095750_20200318T095931_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_20200318T103813_20200318T104224_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_20200318T105708_20200318T105825_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_20200318T110524_20200318T110618_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_20200318T110847_20200318T110925_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_20200318T111811_20200318T111931_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_20200318T123449_20200318T124229_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_20200318T141247_20200318T142303_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_20200318T152252_20200318T152446_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_20200318T155024_20200318T155049_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_20200318T155212_20200318T155245_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_20200318T155629_20200318T160417_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_20200318T164232_20200318T164448_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_20200318T173315_20200318T173553_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_20200318T173606_20200318T174714_C001	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_20200318T191558_20200318T192349_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_20200318T192447_20200318T192628_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_20200318T205504_20200318T210030_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_20200318T210537_20200318T210611_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_20200318T215025_20200318T215259_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_20200318T222346_20200318T222453_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_20200318T223405_20200318T224100_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_20200318T225440_20200318T230151_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_20200318T230154_20200318T230254_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_20200318T235832_20200318T235920_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 182

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 54

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 136

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

6.4 P2P Auxiliary Correction Error Check

CS OFFL SIR GOP 2 20200318T205644 20200318T214618 C001

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

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

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

Number of products with errors: 30 Test Failed Description **Product** There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_GOP_2__20200317T232648_20200318T001622_C002 more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T001622_20200318T010602_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T010602_20200318T015536_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide height CS OFFL SIR GOP 2 20200318T015536 20200318T024515 C001 Tide (GOT) (solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T024515_20200318T033449_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20200318T033449 20200318T042429 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20200318T042429 20200318T051403 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20200318T051403 20200318T060342 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T060342_20200318T065316_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20200318T065316 20200318T074256 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2_ 20200318T083230_20200318T092209_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide height CS OFFL SIR GOP 2 20200318T092209 20200318T101143 C001 Tide (GOT) (solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20200318T101143 20200318T110123 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T110123_20200318T115057_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T115057_20200318T124037_C001 Topography height (solution 1) for one or more records Topography (1) iviean Sea Surrace (1), iviean Dynamic I nere is an error with the IVISS neight (solution 1) and the IVIEAN Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), the Total Geocentric Ocean Tide height CS_OFFL_SIR_GOP_2__20200318T124037_20200318T133011_C001 Tide (FES), Non-Equilibrium Long Period (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Ocean Tide for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T133011_20200318T141950_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the IVISS neight (solution T) and the IVIEAN Dynamic iviean Sea Surface (T), iviean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), the Total Geocentric Ocean Tide height CS_OFFL_SIR_GOP_2__20200318T141950_20200318T150924_C001 (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Tide (GOT), Total Geocentric Ocean Tide (FFS) Non-Fauilibrium Long Period for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOP 2 20200318T155904 20200318T164838 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T164838_20200318T173817_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T173817_20200318T182751_C001 Topography height (solution 1) for one or more records Topography (1) iviean Sea Suпасе (т), iviean ⊃ynamic There is an error with the IVISS neight (solution 1) and the IVIean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), the Total Geocentric Ocean Tide height CS_OFFL_SIR_GOP_2__20200318T182751_20200318T191731_C001 Tide (GOT), Total Geocentric Ocean (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Tide (FFS) Mon-Fauilibrium Long Period for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOP_2__20200318T191731_20200318T200705_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR GOP 2 20200318T200705 20200318T205644 C001 Topography height (solution 1) for one or more records Topography (1)

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_220200318T214618_20200318T223558_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200318T223558_20200318T232532_C001	` '	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220200318T232532_20200319T001511_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 30

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 29

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 26

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