

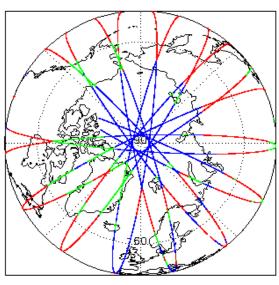
# 1. Overview

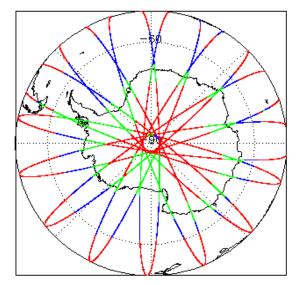
Report Production:	27-Nov-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP)	

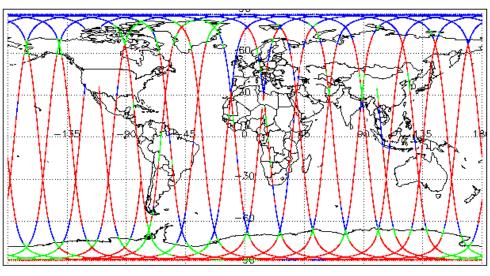
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

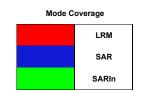
Mission / Instru	ment News
28-Oct-2020	None
29-Oct-2020	None
30-Oct-2020	Nothing planned

# 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 I1b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

# 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

Ω

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

#### 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: 14

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20201029T094223_20201029T100351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20201029T103730_20201029T105316_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201029T010740_20201029T011229_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201029T073817_20201029T074126_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201029T105726_20201029T105941_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201029T205846_20201029T210306_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201029T223742_20201029T223854_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201029T224027_20201029T224252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201029T024251_20201029T024804_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201029T065912_20201029T070313_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201029T105941_20201029T110625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201029T163935_20201029T164247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201029T205312_20201029T205735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201029T213622_20201029T214224_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. GOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20201029T011230_20201029T012010_C001	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_GOPM_2_20201029T041812_20201029T042105_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_20201029T001119_20201029T001307_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_20201029T002138_20201029T002329_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_20201029T010740_20201029T011229_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_20201029T033205_20201029T033422_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20201029T051015_20201029T051330_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_20201029T051850_20201029T052008_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_20201029T061008_20201029T061050_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_20201029T064901_20201029T065220_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_20201029T065747_20201029T065912_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_20201029T073817_20201029T074126_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20201029T083554_20201029T083734_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_20201029T091928_20201029T092025_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_20201029T101337_20201029T101549_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_20201029T105726_20201029T105941_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_20201029T114356_20201029T114542_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_20201029T115227_20201029T115849_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_20201029T123410_20201029T123806_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_20201029T133333_20201029T133530_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_20201029T164247_20201029T164407_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_20201029T172941_20201029T173200_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_20201029T182208_20201029T182333_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_20201029T182844_20201029T183150_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20201029T200239_20201029T200535_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_20201029T200748_20201029T201310_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_20201029T205846_20201029T210306_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20201029T214224_20201029T214459_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_20201029T223742_20201029T223854_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_20201029T231926_20201029T232319_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_20201029T010116_20201029T010740_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_20201029T024251_20201029T024804_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_20201029T041050_20201029T041254_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_20201029T041620_20201029T041812_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_20201029T042154_20201029T042954_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_20201029T060032_20201029T060917_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_20201029T074126_20201029T074915_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_20201029T092026_20201029T092608_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_20201029T105941_20201029T110625_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_20201029T123806_20201029T124328_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_20201029T141628_20201029T142636_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_20201029T155351_20201029T155642_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_20201029T155642_20201029T160127_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_20201029T161155_20201029T161247_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_20201029T173254_20201029T173940_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_20201029T173940_20201029T174151_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_20201029T191138_20201029T191839_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_20201029T191840_20201029T192055_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_20201029T205312_20201029T205735_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_20201029T205735_20201029T205846_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_20201029T223113_20201029T223417_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_20201029T223417_20201029T223742_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:

0

# 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.

85

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20201028T235502_20201029T000851_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 OFFE SIR GOPM 2 202010291001308 202010291002137 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_20201029T002508_20201029T004642_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_20201029T012224_20201029T014832_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.

Coco Allendor Success (1944), 2010  Coco Allendor Report (1944), 2010  Coco Allend	CS_OFFL_SIR_GOPM_2_20201029T015501_20201029T015947_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Althouse Flange and Education Coulty. 2009  COURT JUNE, GOTH 2, 2009 (10	CS_OFFL_SIR_GOPM_2_20201029T020705_20201029T022859_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_BIR_DOME_2_2000050703441_2000050704401_200100707040_2001  CS_OFF_BIR_DOME_2_200005070441_2000100704015015_001  CS_OFF_BIR_DOME_2_200005070441_2000100704015015_001  CS_OFF_BIR_DOME_2_200005070441_2000100704015015_001  CS_OFF_BIR_DOME_2_20000507040112_20001007070401_20010  CS_OFF_BIR_DOME_2_20000507040112_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507040112_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507040112_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20000507070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20001007070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20001007070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20001007070412_2000100707040130_001  CS_OFF_BIR_DOME_2_20001007070412_200010070704012_2000100707040130_001  CS_OFF_BIR_DOME_2_20001007070412_2000100707040001  CS_O	CS_OFFL_SIR_GOPM_2_20201029T030128_20201029T032623_C001	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CB_CPFL_SR_GOPM_2_20201029793441_20201029704000_COID  CB_CPFL_SR_GOPM_2_20201029794341_20201029704000_COID  CB_CPFL_SR_GOPM_2_20201029794300_2001029702000_COID  CB_CPFL_SR_GOPM_2_2020102979400000_COID  CB_CPFL_SR_GOPM_2_202010297940000000000000000000000000000000000		OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
SCHOPPLER, DOPM_2.70010071814112 700110071814512 COOL  Deep Allement Regue and Debestories Could be to or owner to receive past of the occord Allement Regue and Debestories Could be to or owner to receive past of the occord Allement Regue and Debestories Could be to or owner to receive past of the Occord Allement Regue, 2814, 5914 and Debestories Could be to or owner to receive past of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue, 2814, 5914 and Debestories Could be allement of the Occord Allement Regue and Debestories Could be allement of the Occord Allement Regue and Debestories Could be allement of the Occord Allement Regue and Debestories Could be allement regue and Debestories Could be allement of the Occord Allement Regue and Debestories Could be allement regue an	00_011011_001111102010201000120120102010	·	
Les Ceff L. Siff, GOPM 2. 202010201043002 (20201020100400), C001  Den Affriche Frage of Bescheller Caulity  Den Affriche Frage Siff, SVM  Den Affriche Frage	CS_OFFL_SIR_GOPM_2_20201029T034341_20201029T041050_C001	and Backscatter Quality, OCOG	set for one or more records.
42 OFFL SIR, GOPM 2 20001029T091530 2009 1029T091550 C001 Six Marketine Range Guality, CODG American Ra	CS_OFFL_SIR_GOPM_2_20201029T041812_20201029T042105_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seg. OFFL_SRI_GOPM_2_70091029108240_70001029109273 _	CS_OFFL_SIR_GOPM_2_20201029T043302_20201029T050540_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backszeiter Cauliy), COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags have been self or COCG Allmeirer Range and Backszeiter Cauliy Flags	CS_OFFL_SIR_GOPM_2_20201029T051330_20201029T051850_C001		
and the COGA Affineter Range and Backscatter Quality Flags have been Affineter Range and Backscatter Quality Flags have been Affineter Range and Backscatter Range and Backscatter Quality Flags have been Affineter Range and Backscatter Range SINA, SWM and Backscatter Quality Flags have been Affineter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T062419_20201029T065746_C001  CS_OFFL_SIR_GOPM_2_20201029T070313_20201029T071255_C001  Affineter Range and Backscatter Quality CoCG Affineter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T070313_20201029T071255_C001  Affineter Range, SINA_SWM and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T071441_20201029T07249_C001  CS_OFFL_SIR_GOPM_2_20201029T071441_20201029T07249_C001  CS_OFFL_SIR_GOPM_2_20201029T071441_20201029T07249_C001  CS_OFFL_SIR_GOPM_2_20201029T071442_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T071442_20201029T072418_C001  CS_OFFL_SIR_GOPM_2_20201029T072492_20201029T072418_C001  CS_OFFL_SIR_GOPM_2_20201029T072492_20201029T072418_C001  CS_OFFL_SIR_GOPM_2_20201029T074942_20201029T0782318_C001  CS_OFFL_SIR_GOPM_2_20201029T07393252_20201029T083314_C001  CS_OFFL_SIR_GOPM_2_20201029T07393252_20201029T083314_C001  CS_OFFL_SIR_GOPM_2_20201029T0833252_20201029T083314_C001  CS_OFFL_SIR_GOPM_2_20201029T0833252_20201029T083314_C001  CS_OFFL_SIR_GOPM_2_20201029T0833252_20201029T083314_C001  CS_OFFL_SIR_GOPM_2_20201029T0833252_20201029T083315_C001  CS_OFFL_SIR_GOPM_2_20201029T0833252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0823252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0823252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0823252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0823252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0823252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0923252_20201029T093315_C001  CS_OFFL_SIR_GOPM_2_20201029T0923252_20201029T093315_C001  CS_	CS_OFFL_SIR_GOPM_2_20201029T055632_20201029T060031_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flackscatter Quality, COOG Altimeter Range and Backscatter Quality Flags have been self- comment of the COOG Altimeter Range and Backscatter Quality Flags have been self- discontinuously.  CS_OFFL_SIR_GOPM_2_20201029T095340_20201029T095746_C001  CS_OFFL_SIR_GOPM_2_20201029T097313_20201029T097249_C001  CS_OFFL_SIR_GOPM_2_20201029T097441_20201029T07249_C001  CS_OFFL_SIR_GOPM_2_20201029T097441_20201029T07249_C001  CS_OFFL_SIR_GOPM_2_20201029T097233_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T097233_20201029T097276_C001  CS_OFFL_SIR_GOPM_2_20201029T097233_20201029T097276_C001  CS_OFFL_SIR_GOPM_2_20201029T0972782_C001029T097276_C001  CS_OFFL_SIR_GOPM_2_20201029T097278_C0010  CS_OFFL_SIR_GOPM_2_20201029T097278_C0010  CS_OFFL_SIR_GOPM_2_20201029T097278_C0010  CS_OFFL_SIR_GOPM_2_20201029T097278_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T097353_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T09735_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T097355_C001  CS_OFFL_SIR_GOPM_2_20201029T0973523_20201029T09735_C001  CS_OFFL_SIR_GOPM_2_20201029T09735_20201029T09735_C001  CS_OFFL_SIR_GOPM_2_20201029T097	CS_OFFL_SIR_GOPM_2_20201029T061211_20201029T062133_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20201029T070313_20201029T071253_C001  Ocean Allimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags and the COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T08422_20201029T083554_C001  SC_OFFL_SIR_GOPM_2_20201029T08433_20201029T08435_C001  CS_OFFL_SIR_GOPM_2_20201029T08433_20201029T08436_C001  CS_OFFL_SIR_GOPM_2_20201029T08433_20201029T08436_C001  CS_OFFL_SIR_GOPM_2_20201029T08433_20201029T09427_C001  CS_OFFL_SIR_GOPM_2_20201029T08433_20201029T09427_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T001927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T001927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_202	CS_OFFL_SIR_GOPM_2_20201029T062419_20201029T064539_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20201029T074312_00201029T07244_C001  CS_OFFL_SIR_GOPM_2_20201029T07441_20201029T07244_C001  CS_OFFL_SIR_GOPM_2_20201029T07441_20201029T07244_C001  CS_OFFL_SIR_GOPM_2_20201029T07441_20201029T07241_C001  CS_OFFL_SIR_GOPM_2_20201029T07233_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T07233_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T07233_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T07233_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T07233_20201029T072716_C001  CS_OFFL_SIR_GOPM_2_20201029T07233_20201029T082418_C001  CS_OFFL_SIR_GOPM_2_20201029T082726_20201029T082322_C001  CS_OFFL_SIR_GOPM_2_20201029T082726_20201029T083232_C001  CS_OFFL_SIR_GOPM_2_20201029T082726_20201029T0833232_C001  CCOCA Altimeter Range Quality, CCOG Backscatter Quality Flags have been set for one or more records.  CCOCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T082726_20201029T0833232_C001  CCOCA Altimeter Range Quality, CCOG Backscatter Quality Flags have been set for one or more records.  CCOCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_C001  CC_OFFL_SIR_GOPM_2_20201029T091827_20201029T091438_C001  CC_OFFL_SIR_GOPM_2_20201029T091827_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T091227_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T091227_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09235_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09235_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09223_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09235_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09223_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09223_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09223_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09223_20201029T09127_C001  CC_OFFL_SIR_GOPM_2_20201029T09223_20201029T09121_C001  CC_OFFL_SIR_GOPM_2_20201029T09211_20201029T09111_C001  CC_OFFL_SIR_GOPM_2_20201029T09211_20201	CS_OFFL_SIR_GOPM_2_20201029T065340_20201029T065746_C001		
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been Allimeter Range, SSHA, SWH and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality, Flags and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Allimeter Range Quality, OCOG Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T08252_20201029T083524_CO01  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083525_CO01  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T08333_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T084033_20201029T091427_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T092035_20201029T09127_CO01  CS_OFFL_SIR_GOPM_2_20201029T092035_20201029T09127_CO01  CS_OFFL_SIR_GOPM_2_20201029T09223_20201029T09127_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T001351_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T101310_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T101310_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T101310_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T10310_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T10310_CO01  CS_OFFL_SIR_GOPM_2_20201029T002423_20201029T10310_CO01  CS_OFFL_SIR_GOPM_2_202010	CS_OFFL_SIR_GOPM_2_20201029T070313_20201029T071253_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. COG Altimeter Range and Backscatter Quality Flags have been Altimeter Range. SHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T074942_20201029T082418_CO01  CS_OFFL_SIR_GOPM_2_20201029T082728_20201029T082323_CO01  CS_OFFL_SIR_GOPM_2_20201029T082728_20201029T083232_CO01  CS_OFFL_SIR_GOPM_2_20201029T08252_20201029T083232_CO01  CS_OFFL_SIR_GOPM_2_20201029T08252_20201029T083554_CO01  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083554_CO01  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T08438_CO01  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T0910223_20201029T00351_CO01  CS_OFFL_SIR_GOPM_2_20201029T09423_20201029T00351_CO01  CS_OFFL_SIR_GOPM_2_20201029T09423_20201029T00351_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T09424_20201029T101131_CO01  CS_OFFL_SIR_GOPM_2_20201029T100824_20201029T101131_CO01  CS_OFFL_SIR_GOPM_2_20201029T100824_20201029T103110_CO01  CS_OFFL_SIR_GOPM_2_20201029T100824_20201029T10113	CS_OFFL_SIR_GOPM_2_20201029T071441_20201029T072049_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been at for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T082726_20201029T083232_CO01  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083554_CO01  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083554_CO01  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083554_CO01  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T08907_20201029T091438_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_CO01  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T09127_CO01  CS_OFFL_SIR_GOPM_2_20201029T09235_20201029T094217_CO01  CS_OFFL_SIR_GOPM_2_20201029T09235_20201029T094217_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T094217_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_CO01  CS_OFFL_SIR_GOPM_2_20201029T00624_20201029T101131_CO01  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_CO01  CS_OFFL_SIR_GOPM_2_20201029T100711_20201029T101111_CO01  CS_OFFL_SIR_GOPM_2_20201029T100711_20201029T101111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T101111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T101111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T101111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T10071111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T10071111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T10071111_CO01  CS_OFFL_SIR_GOPM_2_20201029T1007111_20201029T1007111_20201029T10071111_CO01  CS_OFFL_SIR_GOPM_2_20201029T10071111_20201029T10071111_CO01  CS_OFFL_SIR_GOPM_2_20201029T10071111_20201029T100711111_CO01  CS_OFFL_SIR_GOPM_2_20201029T10071111_20201029T1007111111_CO01  CS_OFFL_SIR_GOPM_2_20201029T10071111_20201029T100711111110_CO01  CS_OFFL_SIR_GOPM_2_20201029T10071111_20201029T100711111110_CO01  CS_OFFL_SIR_GOPM_2_20201029T100711111110_CO01  CS_OFFL_SIR_GOPM_2_20201029T10071111110_CO01  CS_OFFL_SIR_G	CS_OFFL_SIR_GOPM_2_20201029T072233_20201029T072716_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083554_C001  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091438_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T09235_20201029T09127_C001  CS_OFFL_SIR_GOPM_2_20201029T09235_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T09235_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T09235_20201029T00351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_2	CS_OFFL_SIR_GOPM_2_20201029T074942_20201029T082418_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T09351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001  CS_OFFL_SIR_GOPM_2_20201029T103	CS_OFFL_SIR_GOPM_2_20201029T082726_20201029T083232_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T00351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T00624_20201029T101131_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T1021111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T1021111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T1021111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T1021111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T1021111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T1021111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T1	CS_OFFL_SIR_GOPM_2_20201029T083252_20201029T083554_C001		
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103116_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001  CS_OFFL_SIR_GOPM_2_20201029T10	CS_OFFL_SIR_GOPM_2_20201029T084333_20201029T091438_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20201029T091807_20201029T091927_C001		
CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001  CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20201029T092935_20201029T094217_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  Backscatter Quality  CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103116_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103316_C001  CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T103111115_C001	CS_OFFL_SIR_GOPM_2_20201029T094223_20201029T100351_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  The Ocean Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20201029T100624_20201029T101131_C001		
CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range and Backscatter Quality Flags have been set OCOG Altimeter Range QUALITY Flags have been set	CS_OFFL_SIR_GOPM_2_20201029T102111_20201029T103110_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20201029T103730_20201029T105316_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20201029T111054_20201029T111115_C001		

CS_OFFL_SIR_GOPM_2_20201029T111203_20201029T112717_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_20201029T112856_20201029T114216_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_20201029T114542_20201029T115043_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_20201029T115108_20201029T115117_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_20201029T115849_20201029T121820_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_20201029T121822_20201029T122109_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_20201029T122231_20201029T123410_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_20201029T125354_20201029T125432_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_20201029T130001_20201029T132047_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_20201029T132624_20201029T133000_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_20201029T133022_20201029T133333_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_20201029T133721_20201029T140405_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_20201029T143612_20201029T150033_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_20201029T150407_20201029T150915_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_20201029T150922_20201029T151250_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_20201029T151653_20201029T155006_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_20201029T160231_20201029T160457_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_20201029T162447_20201029T163048_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_20201029T163557_20201029T163935_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_20201029T164407_20201029T164949_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_20201029T165029_20201029T165151_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_20201029T165732_20201029T172940_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_20201029T180221_20201029T181802_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_20201029T182334_20201029T182844_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_20201029T183544_20201029T191048_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_20201029T192056_20201029T192307_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_20201029T193321_20201029T193758_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_20201029T193837_20201029T195635_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_20201029T200535_20201029T200747_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_20201029T201524_20201029T204916_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_20201029T210315_20201029T212217_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_20201029T212302_20201029T213621_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_20201029T214823_20201029T215200_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_20201029T215437_20201029T220922_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_20201029T221124_20201029T222046_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_20201029T223855_20201029T224027_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_20201029T224252_20201029T230004_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_20201029T231617_20201029T231726_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_20201029T232319_20201029T232624_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_20201029T232628_20201029T233102_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_20201029T233417_20201029T234826_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_20201029T024226_20201029T024251_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_20201029T033205_20201029T033422_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_20201029T043128_20201029T043302_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_20201029T061008_20201029T061050_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_20201029T091439_20201029T091602_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_20201029T125433_20201029T125816_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_20201029T150232_20201029T150406_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_20201029T232625_20201029T232628_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201029T023844_20201029T023949_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201029T052650_20201029T052930_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201029T054744_20201029T055127_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPR_2_20201029T071254_20201029T071441_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201029T112717_20201029T112856_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20201029T001119_20201029T001307_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_20201029T004824_20201029T005153_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_20201029T015054_20201029T015214_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_20201029T015947_20201029T020202_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_20201029T023249_20201029T023322_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_20201029T033023_20201029T033143_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_20201029T034018_20201029T034146_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_20201029T042134_20201029T042154_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_20201029T051015_20201029T051330_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_20201029T054109_20201029T054253_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_20201029T055218_20201029T055227_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_20201029T060917_20201029T060959_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_20201029T064901_20201029T065220_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_20201029T065747_20201029T065912_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_20201029T072050_20201029T072206_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_20201029T072215_20201029T072232_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_20201029T073547_20201029T073632_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_20201029T073817_20201029T074126_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_20201029T083554_20201029T083734_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_20201029T091439_20201029T091602_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_20201029T100443_20201029T100624_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_20201029T103111_20201029T103216_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_20201029T105316_20201029T105618_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_20201029T114356_20201029T114542_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_20201029T115227_20201029T115849_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_20201029T123410_20201029T123806_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_20201029T125303_20201029T125354_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_20201029T132350_20201029T132623_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_20201029T133333_20201029T133530_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_20201029T143450_20201029T143611_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_20201029T150232_20201029T150406_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_20201029T151250_20201029T151419_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_20201029T155006_20201029T155211_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_20201029T155218_20201029T155350_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_20201029T164247_20201029T164407_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_20201029T165151_20201029T165306_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_20201029T172941_20201029T173200_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_20201029T174952_20201029T175002_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_20201029T182844_20201029T183150_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_20201029T200239_20201029T200535_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_20201029T200748_20201029T201310_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_20201029T205217_20201029T205312_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_20201029T205846_20201029T210306_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_20201029T222047_20201029T222408_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_20201029T223742_20201029T223854_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_20201029T230004_20201029T230529_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_20201029T231727_20201029T231923_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_20201029T010023_20201029T010116_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_20201029T010116_20201029T010740_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_20201029T012010_20201029T012224_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_20201029T014832_20201029T015054_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_20201029T024251_20201029T024804_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_20201029T025932_20201029T025940_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_20201029T032623_20201029T033023_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_20201029T034146_20201029T034341_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_20201029T041620_20201029T041812_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_20201029T042154_20201029T042954_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_20201029T050540_20201029T051015_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_20201029T052009_20201029T052527_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_20201029T054744_20201029T055127_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_20201029T055334_20201029T055505_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_20201029T060032_20201029T060917_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_20201029T064540_20201029T064901_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_20201029T065912_20201029T070313_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_20201029T074126_20201029T074915_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_20201029T083734_20201029T084333_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_20201029T092026_20201029T092608_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_20201029T092624_20201029T092734_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_20201029T101549_20201029T102111_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_20201029T103517_20201029T103730_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_20201029T105941_20201029T110625_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Bongs, CCHA, CMH and Bookscotter Quality Flogs

CS\_OFFL\_SIR\_GOPR\_2\_20201029T123806\_20201029T124328\_C001

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPR_2_20201029T124400_20201029T124503_C001  CS_OFFL_SIR_GOPR_2_20201029T141628_20201029T142636_C001  CS_OFFL_SIR_GOPR_2_20201029T141628_20201029T142636_C001  CS_OFFL_SIR_GOPR_2_20201029T155351_20201029T155642_C001  CS_OFFL_SIR_GOPR_2_20201029T155642_20201029T160127_C001  CS_OFFL_SIR_GOPR_2_20201029T165642_20201029T160127_C001  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T164247_C001  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T174831_C001  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T165732_	Quality Flags gs have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20201029T155351_20201029T155642_C001  CS_OFFL_SIR_GOPR_2_20201029T155351_20201029T155642_C001  CS_OFFL_SIR_GOPR_2_20201029T155642_20201029T160127_C001  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T160127_C001  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T164247_C001  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029	Quality Flags gs have been
CS_OFFL_SIR_GOPR_2_20201029T155351_20201029T155642_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20201029T155642_20201029T160127_C001  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T164247_C001  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T164247_C001  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029	Quality Flags gs have been Quality Flags gs have been Quality Flags gs have been
CS_OFFL_SIR_GOPR_2_20201029T155642_20201029T160127_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T164247_C001  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029	gs have been Quality Flags gs have been Quality Flags
CS_OFFL_SIR_GOPR_2_20201029T163935_20201029T164247_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T174831_C001  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T174831_C001  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T174831_C001  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T174831_C001	gs have been Quality Flags
CS_OFFL_SIR_GOPR_2_20201029T165306_20201029T165732_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  and the OCOG Altimeter Range, SSRA, SWR and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag set for one or more records.  CS_OFFL_SIR_GOPR_2_20201029T174439_20201029T174831_C001  OCOG Altimeter Range Quality PLRM,  The OCOG Range and Backscatter Quality Flags have been	
	set for one or
CS_OFFL_SIR_GOPR_2_20201029T175108_20201029T175427_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been more records.	set for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_GOPR_2_20201029T183150_20201029T183544_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 Flag and the OCOG Altimeter Range and Backscatter Quality Flag set for one or more records.	
CS_OFFL_SIR_GOPR_2_20201029T191138_20201029T191839_C001  CS_OFFL_SIR_GOPR_2_20201029T191138_20201029T191839_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag And Backscatter Qu	
CS_OFFL_SIR_GOPR_2_20201029T191840_20201029T192055_C001  CS_OFFL_SIR_GOPR_2_20201029T191840_20201029T192055_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag And Backscatter Qu	
CS_OFFL_SIR_GOPR_2_20201029T195635_20201029T200239_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag Altimeter Range and Backscatter Quality Flag and Backscatter Quality Flag Altimeter Range and Backscatter Quality Flag Altime	
CS_OFFL_SIR_GOPR_2_20201029T205312_20201029T205735_C001  CS_OFFL_SIR_GOPR_2_20201029T205312_20201029T205735_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag Altimeter Range	
CS_OFFL_SIR_GOPR_2_20201029T213622_20201029T214224_C001  CS_OFFL_SIR_GOPR_2_20201029T213622_20201029T214224_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flag	luality Flags gs have been
CS_OFFL_SIR_GOPR_2_20201029T223113_20201029T223417_C001  CS_OFFL_SIR_GOPR_2_20201029T223113_20201029T223417_C001  Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag And Backscatter Qu	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM of one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag And Backscatter Quality Fl	
CS_OFFL_SIR_GOPR_2_20201029T231440_20201029T231509_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records.	set for one or
CS_OFFL_SIR_GOPR_2_20201029T233248_20201029T233417_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 Flag and the OCOG Altimeter Range and Backscatter Quality Flag set for one or more records.	
CS_OFFL_SIR_GOPR_2_20201029T234826_20201029T235421_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been more records.	set for one or
CS_OFFL_SIR_GOPR_2_20201029T235422_20201029T235643_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been more records.	set for one or

#### L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

# 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

#### L2 Retracking Flags (20Hz, PLRM)

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

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

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

0

# 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:

Ω

# 6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20201028T232640_20201029T001616_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_2_20201029T001616_20201029T010555_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T010555_20201029T015531_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
CS_OFFL_SIR_GOP_2_20201029T015531_20201029T024509_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T024509_20201029T033446_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
CS_OFFL_SIR_GOP_2_20201029T033446_20201029T042424_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T042424_20201029T051400_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T051400_20201029T060339_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T060339_20201029T065315_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T065315_20201029T074253_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide heigh for one or more records
CS_OFFL_SIR_GOP_2_20201029T074253_20201029T083230_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T083230_20201029T092208_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T092208_20201029T101144_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T101144_20201029T110123_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T110123_20201029T115059_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T115059_20201029T124037_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T124037_20201029T133014_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T133014_20201029T141952_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_220201029T141952_20201029T150928_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T150928_20201029T155907_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T155907_20201029T164843_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T164843_20201029T173821_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T173821_20201029T182758_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T182758_20201029T191736_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220201029T191736_20201029T200712_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20201029T200712_20201029T205651_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T205651_20201029T214627_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220201029T214627_20201029T223605_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220201029T223605_20201029T232542_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

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product Test Failed Description

# 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: 2

#### 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: 3

## 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: 27

### P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

# 7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	161	161	8	153	0
SIR_GOPR1B	99	99	0	99	0
SIR_GOPN1B	102	102	3	99	0
SIR_GOPM_2	161	161	115	46	0
SIR_GOPR_2	99	99	21	75	3
SIR_GOPN_2	102	102	40	62	0
SIR_GOP_P2P	29	29	0	26	3

## 7.1 QCC Errors

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	3	3	3	3							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOP_2_	3	3	3	3							

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

# 7.2 QCC Warnings

Number of QCC reports with warnings

2168

Total numb	er of occur	rences of ea	ach warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	153	0	0	0	0	0	0
SIR_GOPM_2	0	0	38	35	1	38	0
SIR_GOPN1B	97	0	0	0	0	0	0
SIR_GOPN_2	0	0	8	32	4	27	30
SIR_GOPR1B	96	0	0	0	0	0	0
SIR_GOPR_2	0	3	39	46	0	38	32

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	32	0	30	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	18	0	0	0	28	0	34
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	14	1	0	46	0	52	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	23	0	0	3	25	0	3
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	30	21	49	52	37
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	43	0	4	65	50	15

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	29	0	2	0	0	0	0
SIR_GOPN1B	0	0	0	1	0	47	2
SIR_GOPN_2	33	32	15	0	2	0	0
SIR_GOPR1B	0	0	0	0	0	99	5
SIR_GOPR_2	39	47	1	0	6	0	0

SID COD 2 21 20 20 5 20 5 20 17 20	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOF_Z   21   29   29   3   29   17   20	SIR GOP 2	21	29	29	5	29	17	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	1	16	29	26	21	29	19

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_GOP_2_	26	29	18	15	29		

Test Description Key:							
Abbreviation	Test name	Details					
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean					
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)					

SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0