

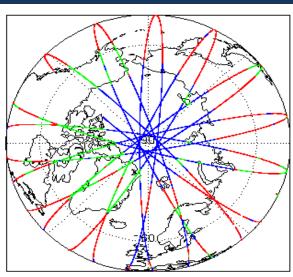
# 1. Overview

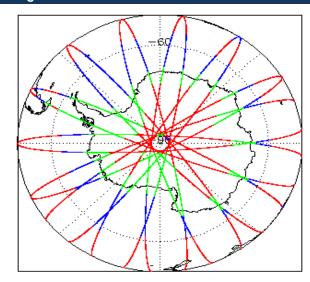
Report Production:	22-Sep-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

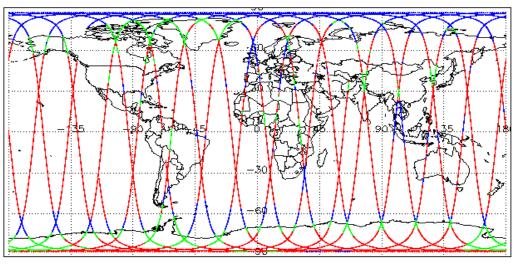
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

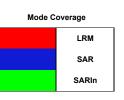
N	Mission / Instru	ment News
	16-Aug-2021	None
	17-Aug-2021	None
	18-Aug-2021	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

Ω

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210817T045613_20210817T045748_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20210817T083025_20210817T083343_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20210817T230346_20210817T230723_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

23

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20210817T064842_20210817T070143_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210817T072005_20210817T073500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210817T073703_20210817T074625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210817T080850_20210817T082544_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210817T143544_20210817T143604_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210817T205148_20210817T210101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20210817T210609_20210817T210830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T012701_20210817T012732_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T062427_20210817T062840_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T080618_20210817T080850_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T084307_20210817T084904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T102522_20210817T102712_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T143239_20210817T143327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T144556_20210817T144737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T192906_20210817T193304_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T193325_20210817T193408_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T193420_20210817T193453_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T202738_20210817T203352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T210930_20210817T211154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20210817T211156_20210817T211345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210817T021846_20210817T022319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210817T142231_20210817T142324_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20210817T160642_20210817T160746_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.

### 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_20210817T111343_20210817T111356_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_20210817T020819_20210817T020944_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_20210817T034747_20210817T034913_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_20210817T035424_20210817T035727_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_20210817T052809_20210817T053108_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_20210817T053327_20210817T053845_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_20210817T062427_20210817T062840_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_20210817T070804_20210817T071039_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_20210817T080320_20210817T080434_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210817T080618_20210817T080850_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210817T084307_20210817T084904_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_20210817T094244_20210817T094505_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_20210817T102522_20210817T102712_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_20210817T112224_20210817T112701_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_20210817T120502_20210817T120639_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_20210817T134451_20210817T134838_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_20210817T142325_20210817T142523_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_20210817T152428_20210817T152744_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_20210817T153256_20210817T153418_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_20210817T161524_20210817T161610_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_20210817T171206_20210817T171313_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_20210817T175422_20210817T175540_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_20210817T192906_20210817T193304_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20210817T193325_20210817T193408_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_20210817T193420_20210817T193453_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_20210817T202738_20210817T203352_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_20210817T211156_20210817T211345_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_20210817T220656_20210817T221018_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_20210817T224818_20210817T225207_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_20210817T234800_20210817T234914_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_20210817T011925_20210817T012701_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_20210817T025851_20210817T030518_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_20210817T030518_20210817T030702_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_20210817T043659_20210817T044419_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_20210817T044419_20210817T044619_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_20210817T061849_20210817T062314_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_20210817T062314_20210817T062427_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_20210817T075639_20210817T080144_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_20210817T080144_20210817T080320_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_20210817T091330_20210817T092059_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_20210817T093633_20210817T094244_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_20210817T111808_20210817T112223_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_20210817T125634_20210817T130307_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_20210817T143605_20210817T144353_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_20210817T161611_20210817T162428_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_20210817T175541_20210817T180308_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_20210817T193453_20210817T194014_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_20210817T211345_20210817T211956_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_20210817T211956_20210817T212101_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_20210817T225207_20210817T225726_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210817T045613_20210817T045748_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20210817T083025_20210817T083343_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20210817T230346_20210817T230723_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 5.6 L2 Measurement Quality Flag Check

### L2 Quality Flags (20Hz)

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

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

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

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20210817T000207_20210817T002618_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20210817T002944_20210817T003455_C001	3	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Committee   Comm	CS_OFFL_SIR_GOPM_2_20210817T003502_20210817T003830_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Devel 1988 GOPN 2 2010917101001 2001 201109171010101 2011 201109171010101 2011 201109171010101 2011 201109171010101 2011 20110917101010101 201109171010101 201109171010101 201109171010101 20110917101010101 20110917101010101 20110917101010101 20110917101010101010101010101010101010101	CS_OFFL_SIR_GOPM_2_20210817T004223_20210817T011529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Special County   Spec	CS_OFFL_SIR_GOPM_2_20210817T012805_20210817T013513_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
68, OPPL_SR_GOM_2_201081710218_201681700190_COID  69, OPPL_SR_GOM_2_201081710218_201681700190_COID  60, OPPL_SR_GOM_2_201081710218_201681700190_COID  60, OPPL_SR_GOM_2_201081710218_201681700190_COID  60, OPPL_SR_GOM_2_201081710218_201681700190_COID  60, OPPL_SR_GOM_2_201081710218_201681700190_COID  60, OPPL_SR_GOM_2_201081710218_201681700190_COID  60, OPPL_SR_GOM_2_201081710218_201681700320_COID  60, OPPL_SR_GOM_2_201081710218_201681700340_COID  60, OPPL_SR_GOM_2_201081710218_201681700340_COID  60, OPPL_SR_GOM_2_201081710218_201681700440_COID  60, OPPL_SR_GOM_2_201081710218_201681700440_COID  60, OPPL_SR_GOM_2_201081710418_201681700440_COID  60, OPPL_SR_GOM_2_201081710418_201681700440_COID  60, OPPL_SR_GOM_2_201081710418_201681700440_COID  60, OPPL_SR_GOM_2_201081710418_20168171044040_	CS_OFFL_SIR_GOPM_2_20210817T013546_20210817T013737_C001		
South Conf. (1987). Conf. (198	CS_OFFL_SIR_GOPM_2_20210817T020135_20210817T020543_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_7001981/1002192_2011091/1002192_001091/1002702_001091  CS_OFFL_SIR_GOPM_2_7001981/1002192_2011091/1002192_001091/1002192_0	CS_OFFL_SIR_GOPM_2_20210817T020944_20210817T021530_C001		
GB_OFFL_SIR_GOPM_2_202108171030792_202108171030792_0011  CB_OFFL_SIR_GOPM_2_202108171030792_202108171030932_0010  CB_OFFL_SIR_GOPM_2_202108171030932_00108171030932_0010  CB_OFFL_SIR_GOPM_2_202108171040172_0010817104093_0010  CB_OFFL_SIR_GOPM_2_202108171040172_0010817104093_0010  CB_OFFL_SIR_GOPM_2_202108171040172_0010817104093_0010  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_0010  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_0010  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_0010  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_0010  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_0010  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_001081  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_001081  CB_OFFL_SIR_GOPM_2_20210817104093_0010817104093_001081  CB_OFFL_SIR_GOPM_2_20210817104049_0010817104093_001081  CB_OFFL_SIR_GOPM_2_20210817104049_0010817104093_001081  CB_OFFL_SIR_GOPM_2_20210817104049_0010817104093_001081  CB_OFFL_SIR_GOPM_2_20210817104049_0010817104093_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040492_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040490_00108171040400_001081  CB_OFFL_SIR_GOPM_2_202108171040490_001081  CB_OFFL_SIR_GOPM_2_202108171040490_001	CS_OFFL_SIR_GOPM_2_20210817T022319_20210817T025510_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
cs_OFFL_SIR_COPM_2_202108171030742_2010817030295_CO01  displaced frage and backscater Quality page from the control frage and beakscater Quality Flags have been additionable frage and backscater Quality frage and backsc	CS_OFFL_SIR_GOPM_2_20210817T030702_20210817T030729_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OOGA Allienter Range and Sudscatter Quality Reg. Nev Pen Allienter Range and Sudscatter Quality Reg. Nev Pen Allienter Range and Sudscatter Quality Reg. Nev Pen Allienter Range and Sudscatter Quality Reg. SNA, SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA and Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Range SNAL SWA swart Sudscatter Quality Reg. Nev Pen Allienter Rang	CS_OFFL_SIR_GOPM_2_20210817T030742_20210817T030917_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Affirmeter Range and Backscatter Quality Flags have been all control or on more records.  CS_OFFL_SIR_GOPM_2_20210817104913_20210817704228_C001  CS_OFFL_SIR_GOPM_2_2021081770427_20210817704228_C001  CS_OFFL_SIR_GOPM_2_20210817704228_C001  CS_OFFL_SIR_GOPM_2_20210817704228_2001  CS_OFFL_SIR_GOPM_2_20210817704228_2001  CS_OFFL_SIR_GOPM_2_20210817704228_2001  CS_OFFL_SIR_GOPM_2_20210817704228_2001  CS_OFFL_SIR_GOPM_2_20210817704238_C001  CS_OFFL_SIR_GOPM_2_20210817704238_2001  CS_OFFL_SIR_GOPM_2_20210817704338_C001  CS_OFFL_SIR_GOPM_2_20210817704338_C001  CS_OFFL_SIR_GOPM_2_20210817704338_C001  CS_OFFL_SIR_GOPM_2_20210817704338_C001  CS_OFFL_SIR_GOPM_2_20210817704338_C001  CS_OFFL_SIR_GOPM_2_2021081770404814_C001  CS_OFFL_SIR_GOPM_2_2021081770404814_C001  CS_OFFL_SIR_GOPM_2_202108177040492_202108177063032_C001  CS_OFFL_SIR_GOPM_2_202108177040492_202108177064041_C001  CS_OFFL_SIR_GOPM_2_202108177040441_C001  CS_OFFL_SIR_GOPM_2_20210817704141_202108177071735_C001  CS_OFFL_SIR_GOPM_2_20210817704141_202108177071735_C001  CS_OFFL_SIR_GOPM_2_20210817704141_202108177071735_C001  CS_OFFL_SIR_GOPM_2_20210817707430_C001087707435_C001  CS_OFFL_SIR_GOPM_2_202108177074425_C001  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108177074425_C0010  CS_OFFL_SIR_GOPM_2_202108	CS_OFFL_SIR_GOPM_2_20210817T032639_20210817T033226_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Fro no or more records.  CS_OFFL_SIR_GOPM_2_20210817T040127_20210817T04228_O01  CS_OFFL_SIR_GOPM_2_20210817T04254_0210817T04258_O01  CS_OFFL_SIR_GOPM_2_20210817T04254_0210817T04358_O01  CS_OFFL_SIR_GOPM_2_20210817T044619_20210817T04358_O01  CS_OFFL_SIR_GOPM_2_20210817T044619_20210817T04488_O01  CS_OFFL_SIR_GOPM_2_20210817T054254_0010817T05235_O01  CS_OFFL_SIR_GOPM_2_20210817T05429_20210817T054358_O01  CS_OFFL_SIR_GOPM_2_20210817T054400_20210817T05235_O01  CS_OFFL_SIR_GOPM_2_20210817T054400_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054400_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054400_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054400_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054406_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054416_20210817T054306_O01  CS_OFFL_SIR_GOPM_2_20210817T054416_20210817T07430_O01  CS_OFFL_SIR_GOPM_2_20210817T074411_20210817T07430_O01  CS_OFFL_SIR_GOPM_2_20210817T074411_20210817T074300_O01  CS_OFFL_SIR_GOPM_2_20210817T074411_20210817T074300_O01  CS_OFFL_SIR_GOPM_2_20210817T074411_20210817T074300_O01  CS_OFFL_SIR_GOPM_2_20210817T07406806_20210817T074300_O01  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T075300_2001  CS_OFFL_SIR_GOPM_2_20210817T085000_20210817T074500_O01  CS_OFFL_SIR_GOPM_2_20210817T085000_20210817T0745000_O01  CS_OFFL_SIR_GOPM_2_20210817T085000_20210817T0745000_O01  CS_OFFL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20210817T033236_20210817T034334_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCO GA Allimeter Range and Backscatter Quality Flags have been all Range and Backscatter Quality Flags have been all Range Range and Backscatter Quality Flags have been all Range Range and Backscatter Quality Flags have been all Range Range and Backscatter Quality Flags have been all Range R	CS_OFFL_SIR_GOPM_2_20210817T034913_20210817T035424_C001		
CS_OFFL_SIR_GOPM_2_20210817T042542_20210817T044848_C001  CS_OFFL_SIR_GOPM_2_20210817T044019_20210817T044848_C001  CS_OFFL_SIR_GOPM_2_20210817T050429_20210817T052325_C001  CS_OFFL_SIR_GOPM_2_20210817T050406_20210817T052325_C001  CS_OFFL_SIR_GOPM_2_20210817T050406_20210817T052325_C001  CS_OFFL_SIR_GOPM_2_20210817T05406_20210817T0540641_C001  CS_OFFL_SIR_GOPM_2_20210817T05406_20210817T0540641_C001  CS_OFFL_SIR_GOPM_2_20210817T062847_20210817T064064_C001  CS_OFFL_SIR_GOPM_2_20210817T062847_20210817T07442_C001  CS_OFFL_SIR_GOPM_2_20210817T062847_20210817T07420_C001  CS_OFFL_SIR_GOPM_2_20210817T064064_200181770742_C001  CS_OFFL_SIR_GOPM_2_20210817T074049_C001  CS_OFFL_SIR_GOPM_2_20210817T074049_C001  CS_OFFL_SIR_GOPM_2_20210817T074049_C001  CS_OFFL_SIR_GOPM_2_20210817T07406406_2001817707405_C001  CS_OFFL_SIR_GOPM_2_20210817T07406406_2001817707405_C001  CS_OFFL_SIR_GOPM_2_20210817T07406406_2001817707405_C001  CS_OFFL_SIR_GOPM_2_20210817T07406406_2001817707405_C001  CS_OFFL_SIR_GOPM_2_20210817T084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_20210817T084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_20210817T084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_20210817T084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_20210817T084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_20210817T084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_202108177084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_202108177084006_2001817708201_C001  CS_OFFL_SIR_GOPM_2_202108177084006_2001817708201_C001  COCOA Altimeter Range and Backscatter	CS_OFFL_SIR_GOPM_2_20210817T040127_20210817T042238_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been Allimeter Range, SSHA, SWH and Backscatter Quality, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_GOPM_2_20210817T050429_20210817T051707_C001  CS_OFFL_SIR_GOPM_2_20210817T054106_20210817T051707_C001  CS_OFFL_SIR_GOPM_2_20210817T054106_20210817T051707_C001  CS_OFFL_SIR_GOPM_2_20210817T054106_20210817T054706_C001  CS_OFFL_SIR_GOPM_2_20210817T054106_20210817T054706_C001  CS_OFFL_SIR_GOPM_2_20210817T064406_20210817T064704_C001  CS_OFFL_SIR_GOPM_2_20210817T064404_20210817T07143_C001  CS_OFFL_SIR_GOPM_2_20210817T071411_20210817T071739_C001  CS_OFFL_SIR_GOPM_2_20210817T071411_20210817T071739_C001  CS_OFFL_SIR_GOPM_2_20210817T071411_20210817T071739_C001  CS_OFFL_SIR_GOPM_2_20210817T07303_20210817T074055_C001  CS_OFFL_SIR_GOPM_2_20210817T07303_20210817T074055_C001  CS_OFFL_SIR_GOPM_2_20210817T07303_20210817T074055_C001  CS_OFFL_SIR_GOPM_2_20210817T084080_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084080_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T078090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T078090_20210817T074055_C001  CS_OFFL_SIR_GOPM_2_20210817T084080_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084080_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084080_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084080_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T084080_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_20210817T08500_C001  CS_OFFL_SIR_GOPM_2_20210817T084090_2021081	CS_OFFL_SIR_GOPM_2_20210817T042354_20210817T043538_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Qua	CS_OFFL_SIR_GOPM_2_20210817T044619_20210817T044848_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210817T072005_20210817T073500_C001  CS_OFFL_SIR_GOPM_2_20210817T07303_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T07303_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T0780500_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T080550_20210817T082544_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T084095_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085641_C001  CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20210817T050429_20210817T052325_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210817T07205_20210817T073500_C001  CS_OFFL_SIR_GOPM_2_20210817T07303_20210817T073500_C001  CS_OFFL_SIR_GOPM_2_20210817T073703_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T073703_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T080850_20210817T082544_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084305_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T084305_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T084305_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T084305_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T084305_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T084305_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085305_20210817T085641_C001	CS_OFFL_SIR_GOPM_2_20210817T054106_20210817T061707_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210817T0704342_20210817T07143_C001  and Backscatter Quality, CCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20210817T071411_20210817T071739_C001  CS_OFFL_SIR_GOPM_2_20210817T072005_20210817T073500_C001  CS_OFFL_SIR_GOPM_2_20210817T073703_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T073703_20210817T074625_C001  CS_OFFL_SIR_GOPM_2_20210817T080850_20210817T082544_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T08501_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T08501_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T08501_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T08501_C001  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T08501_C001  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T08501_C001  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_C001  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_C001  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085041_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085041_C001  CS_OFFL_SIR_GOPM_2_20210817T085055_20210817T085041_C001  CS_OFFL_SIR_GOPM_2_20210817T08	CS_OFFL_SIR_GOPM_2_20210817T062847_20210817T064814_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210817T072005_20210817T073500_CO01  Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210817T072005_20210817T073500_CO01  CS_OFFL_SIR_GOPM_2_20210817T073703_20210817T074625_CO01  CS_OFFL_SIR_GOPM_2_20210817T080850_20210817T082544_CO01  CS_OFFL_SIR_GOPM_2_20210817T080850_20210817T084208_20210817T084306_CO01  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T085201_CO01  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CS_OFFL_SIR_GOPM_2_20210817T08509_20210817T085041_CO01  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPM_2_20210817T064842_20210817T070143_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range	CS_OFFL_SIR_GOPM_2_20210817T071411_20210817T071739_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range Range and Backscatter Quality Flags have been Altimeter Range Range and Backscatter Quality Flags have been Altimeter Range Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Range and Backscatter Quality Flags have been Range Ra	CS_OFFL_SIR_GOPM_2_20210817T072005_20210817T073500_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210817T080850_20210817T082544_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085201_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001  CS_OFFL_SIR_GOPM_2_20210817T085935_20210817T091330_C001  Altimeter Range Quality, OCOG Backscatter Qu	CS_OFFL_SIR_GOPM_2_20210817T073703_20210817T074625_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG	CS_OFFL_SIR_GOPM_2_20210817T080850_20210817T082544_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001  Backscatter Quality  OCOG Altimeter Range Quality, OCOG 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.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPM_2_20210817T084208_20210817T084306_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20210817T084905_20210817T085201_C001		
CS_OFFL_SIR_GOPM_2_20210817T085935_20210817T091330_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20210817T085209_20210817T085641_C001		
	CS_OFFL_SIR_GOPM_2_20210817T085935_20210817T091330_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20210817T093120_20210817T093218_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_20210817T094815_20210817T095039_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_20210817T095202_20210817T095751_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_20210817T100036_20210817T102328_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_20210817T102713_20210817T103541_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_20210817T103914_20210817T110348_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_20210817T113557_20210817T120243_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_20210817T120639_20210817T120803_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_20210817T120925_20210817T121342_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_20210817T121839_20210817T124405_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_20210817T124409_20210817T124654_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_20210817T124953_20210817T125634_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_20210817T131001_20210817T134017_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_20210817T134838_20210817T135424_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_20210817T143327_20210817T143521_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_20210817T144738_20210817T152032_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_20210817T152744_20210817T153256_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_20210817T153833_20210817T155419_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_20210817T161234_20210817T161406_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_20210817T162428_20210817T165454_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_20210817T165505_20210817T165930_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_20210817T170751_20210817T171206_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_20210817T171702_20210817T174134_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_20210817T174304_20210817T175001_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_20210817T175001_20210817T175104_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_20210817T180309_20210817T180852_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_20210817T180943_20210817T181844_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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CS_OFFL_SIR_GOPM_2_20210817T182202_20210817T182426_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_20210817T183244_20210817T183855_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_20210817T184123_20210817T184644_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_20210817T185754_20210817T190831_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_20210817T190842_20210817T191019_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_20210817T191157_20210817T192049_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_20210817T192216_20210817T192906_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_20210817T195118_20210817T200122_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_20210817T200324_20210817T200605_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_20210817T201157_20210817T201759_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_20210817T202050_20210817T202544_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_20210817T202620_20210817T202738_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_20210817T203509_20210817T203750_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_20210817T204340_20210817T204342_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_20210817T205148_20210817T210101_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_20210817T210132_20210817T210446_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_20210817T213319_20210817T213427_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_20210817T214208_20210817T215650_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_20210817T220029_20210817T220514_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_20210817T221242_20210817T223826_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_20210817T231129_20210817T233549_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_20210817T234018_20210817T234413_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_20210817T235137_20210818T001758_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_20210817T000025_20210817T000207_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_20210817T003830_20210817T003956_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_20210817T030917_20210817T031007_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_20210817T070804_20210817T071039_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_20210817T095913_20210817T100036_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_20210817T224818_20210817T225207_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_20210817T234414_20210817T234418_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_20210817T003956_20210817T004220_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T053845_20210817T054106_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T062840_20210817T062847_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T064814_20210817T064842_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_20210817T143605_20210817T144353_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T144516_20210817T144556_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_20210817T160746_20210817T161234_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T185057_20210817T185754_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T191019_20210817T191157_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T194041_20210817T194218_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

### L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20210817T002807_20210817T002943_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_20210817T011529_20210817T011925_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_20210817T025510_20210817T025827_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_20210817T032454_20210817T032639_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_20210817T034747_20210817T034913_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_20210817T035424_20210817T035727_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_20210817T050344_20210817T050429_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_20210817T052809_20210817T053108_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_20210817T053327_20210817T053845_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_20210817T061754_20210817T061849_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_20210817T062427_20210817T062840_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_20210817T071236_20210817T071411_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_20210817T074625_20210817T075000_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CG CFFL SIR GOTN 2 2020017110200 (2010)  CG CFFL SIR GOTN 2 202001710200 (2010)  CG CFFL SIR GOTN 2 2020017110200 (2010)  CG CFFL SIR GOTN 2 20200171110200 (2010)  CG CF	CS_OFFL_SIR_GOPN_2_20210817T080320_20210817T080434_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Col., OFFL_SR_GOPN_2_2001047710694_2001047	CS OFFI SIR COPN 2 20210817T080618 20210817T080850 C001	and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_CRPL_SIR_COPN_2_20210817108202_20210917108202_0001  CS_CRPL_SIR_COPN_2_20210817108202_20210917108202_0001  CS_CRPL_SIR_COPN_2_20210817108202_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817108020_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_202108171108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_202108171108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_202108171108002_20210917108122_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_20210817111080_202109171108002_0001  CS_CRPL_SIR_COPN_2_202108171110802_202109171108002_0001  CS_CRPL_SIR_COPN_2_2021	GS_GFFE_SIIN_GGFFN_22_202100171000010_202100171000030_C001	PLRM	set for one or more records.
CB_OPFL_SIR_GOPPL_2_20218917109509_20219917109509_20319171109509_2031917	CS_OFFL_SIR_GOPN_2_20210817T082545_20210817T082945_C001		
CS_OFFL_SIR_GOPN_2_20216817T09424_20210817T09425_C001  CS_OFFL_SIR_GOPN_2_20216817T09426_20210817T09426_C001  CS_OFFL_SIR_GOPN_2_20216817T09426_20210817T09426_C001  CS_OFFL_SIR_GOPN_2_20216817T09426_20210817T09426_C001  CS_OFFL_SIR_GOPN_2_20216817T10344_20210817T1927_C001  CS_OFFL_SIR_GOPN_2_20216817T10344_20210817T1924_C001  CS_OFFL_SIR_GOPN_2_20216817T11224_20210817T11924_C001  CS_OFFL_SIR_GOPN_2_20216817T11224_20210817T11926_C001  CS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_2021  CCS_OFFL_SIR_GOPN_2_20216817T11926_20210817T1926_2021  CCS_OFFL_SIR_GOPN_2_20216817T1926_20210817T1	CS_OFFL_SIR_GOPN_2_20210817T084307_20210817T084904_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCO Bassaceatric Clausity  CB_OFFL_SIR_GOPN_2_202108171109458_2021081711095020_C001  CB_OFFL_SIR_GOPN_2_2021081711095099_2021081711095020_C001  CB_OFFL_SIR_GOPN_2_2021081711095099_202108171095090_C001  CB_OFFL_SIR_GOPN_2_2021081711095099_20210817110720_C001  CB_OFFL_SIR_GOPN_2_202108171109548_20210817110720_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110720_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110720_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110720_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110720_C001  CB_OFFL_SIR_GOPN_2_202108171110954_20210817111096_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108171110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_20210817110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_20210817110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_20210817110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_20210817110969_C001  CB_OFFL_SIR_GOPN_2_202108171110954_202108	CS_OFFL_SIR_GOPN_2_20210817T093218_20210817T093221_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20216917T109458_20210917T109592_CO10  CS_OFFL_SIR_GOPN_2_20216917T109599_20210917T109592_CO10  CS_OFFL_SIR_GOPN_2_20216917T109599_20210917T109592_CO10  CS_OFFL_SIR_GOPN_2_20216917T109599_20210917T109592_CO10  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10978_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T10968_CO11  CS_OFFL_SIR_GOPN_2_20216917T110964_20210917T110968_CO11  CS_OFFL_SIR_GOPN_2_20216917T110968_CO11  CS_OFFL_SIR_GOPN_2_20216917T110968_CO11617T10968_CO11  CS_OFFL_SIR_GOPN_2_20216917T110968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968_CO11617T10968	CS_OFFL_SIR_GOPN_2_20210817T094244_20210817T094505_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_OOPN_2_20210817T11026_2010817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T110284_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T11028_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T11028_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T11028_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T11028_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T111028_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T111028_20210817T110739_C001  CS_OFFL_SIR_OOPN_2_20210817T111028_20210817T1110739_C001  CS_OFFL_SIR_OOPN_2_20210817T111008_20210817T111009_C001  CS_OFFL_SIR_OOPN_2_20210817T111008_20210817T111009_C001  CS_OFFL_SIR_OOPN_2_20210817T111208_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CS_OFFL_SIR_OOPN_2_20210817T112082_20010817T112089_C001  CCG_Allinetin Range_Coality P.R.M. CCG_Allinetin Range_Coa	CS_OFFL_SIR_GOPN_2_20210817T094536_20210817T094725_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and the COCOA Allmeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20210817T119249_20210817T119729_C001  CS_OFFL_SIR_GOPN_2_20210817T119249_20210817T119729_C001  CCGA Allmeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20210817T1110729_C001  CCGA Allmeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20210817T11209_C001  CCGA Allmeter Range Quality PLRM. CCGA Allmeter Range Q	CS_OFFL_SIR_GOPN_2_20210817T095039_20210817T095202_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Balcocatter Quality PLRM. OCOG Bardocatter Quality PLRM.	CS_OFFL_SIR_GOPN_2_20210817T103541_20210817T103738_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CCG Bakkscatter Quality PLRM. CCS_OFFL_SIR_GOPN_2_20210817T112284_20210817T112609_C001  CCS_OFFL_SIR_GOPN_2_20210817T112284_20210817T112709_C001  CCS_OFFL_SIR_GOPN_2_20210817T112084_20210817T112090_C001  CCS_OFFL_SIR_GOPN_2_20210817T112084_20210817T112085_C001  CCS_OFFL_SIR_GOPN_2_20210817T1120804_20210817T112083_C001  CCS_OFFL_SIR_GOPN_2_20210817T1120804_20210817T112083_C001  CCS_OFFL_SIR_GOPN_2_20210817T1120804_20210817T112083_C001  CCS_OFFL_SIR_GOPN_2_20210817T120804_20210817T12083_C001  CCS_OFFL_SIR_GOPN_2_20210817T120804_20210817T12083_C001  CCS_OFFL_SIR_GOPN_2_20210817T120804_20210817T12083_C001  CCS_OFFL_SIR_GOPN_2_20210817T130804_20210817T12083_C001  CCS_OFFL_SIR_GOPN_2_20210817T130804_20210817T12083_C001  CCS_OFFL_SIR_GOPN_2_20210817T130804_20210817T12083_C001  CCS_OFFL_SIR_GOPN_2_20210817T130804_20210817T13083_C001  CCS_OFFL_SIR_GOPN_2_20210817T130804_20210817T13083_C001  CCS_OFFL_SIR_GOPN_2_20210817T130804_20210817T13083_C001  CCS_OFFL_SIR_GOPN_2_20210817T13081_20210817T13083_C001  CCS_OFFL_SIR_GOPN_2_20210817T13081_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141844_C001  CCS_OFFL_SIR_	CS_OFFL_SIR_GOPN_2_20210817T110348_20210817T110729_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T11224_20210817T112082_CO01  CS_OFFL_SIR_GOPN_2_20210817T112747_20210817T1120839_CO01  CS_OFFL_SIR_GOPN_2_20210817T112747_20210817T1120839_CO01  CS_OFFL_SIR_GOPN_2_20210817T1120804_20210817T1120839_CO01  CS_OFFL_SIR_GOPN_2_20210817T120804_20210817T120839_CO01  CS_OFFL_SIR_GOPN_2_20210817T120804_20210817T13808_CO01  CS_OFFL_SIR_GOPN_2_20210817T120804_20210817T13808_CO01  CS_OFFL_SIR_GOPN_2_20210817T1313451_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T13838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T134838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T134838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T134838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T134838_CO01  CS_OFFL_SIR_GOPN_2_20210817T134452_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T134524_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T134524_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T141150_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T141150_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T141150_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T141508_20210817T134538_CO01  CS_OFFL_SIR_GOPN_2_20210817T141508_20210817T141644_CO01  CCGG Allimeter Range Cuality PLRM. CCGG CRange and Backscatter Quality Flags have been set for on remore records.  CCGG Allimeter Range and Backscatter Quality Flags have been set for on remore records.  CCGG Allimeter Range and Backscatter Quality Flags have been set for on remore records.  CCGG Allimeter Range and Backscatter Quality Flags have been set for on remore records.  CCGG Allimeter Range and Backscatter Quality Flags have been set for on remore records.  CCGG Allimeter Range and Backscatter Quali	CS_OFFL_SIR_GOPN_2_20210817T111202_20210817T111324_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T112747_20210817T112090_C001  CS_OFFL_SIR_GOPN_2_20210817T112747_20210817T112090_C001  CS_OFFL_SIR_GOPN_2_20210817T112747_20210817T113508_C001  CS_OFFL_SIR_GOPN_2_20210817T11305_20210817T113508_C001  CS_OFFL_SIR_GOPN_2_20210817T120502_20210817T120509_C001  CS_OFFL_SIR_GOPN_2_20210817T120502_20210817T120509_C001  CS_OFFL_SIR_GOPN_2_20210817T120502_20210817T120509_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T12059_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T12053_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T12053_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T121333_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134388_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T13538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T14115_20210817T14449_C001  CS_OFFL_SIR_GOPN_2_20210817T14115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T14115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141155_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141155_20210817T141444_C001  CS_OFFL_SIR_GOPN_2_20210817T141155_20210817T141444_C001  CS_OFFL_SIR_GOPN_2_20210817T142523_2001  CS_OFFL_SIR_GOPN_2_20210817T141555_20210817T141644_C001  CCS_OFFL_SIR_GOPN_2_20210817T141555_20210817T141644_C001  CCS_OFFL_SIR_GOPN_2_20210817T141555_20210817T141644_C001  CCS_OFFL_SIR_GOPN_2_20210817T142031_20210817T141644_C001  CCS_OFFL_SIR_GOPN_2_20210817T142031_20210817T141644_C001  CCS_OFFL_SIR_GOPN_2_20210817T142031_20210817T141644_C001  CCGG Altmeter Range Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Backscatter Quality PLRM. CCGG Gange and Backscatter Quality Flags have been set for on ormore records.  CCGG Altmeter Range Quality PLRM. CCGG Gange and Backscatter Quality Flags have been set for on ormore records.  CCGG Altmeter Range Quality PLRM. CCGG Gange and Backscatter Quality Flags have been set for on ormore records.  CCGG Altmeter Range Quality PLRM. CCGG	CS_OFFL_SIR_GOPN_2_20210817T111626_20210817T111645_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality  CS_OFFL_SIR_GOPN_2_20210817T13055_20210817T13508_C001  CS_OFFL_SIR_GOPN_2_20210817T120502_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T120502_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T120504_20210817T120539_C001  CS_OFFL_SIR_GOPN_2_20210817T134351_20210817T134538_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T14115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T1415538_C001  CS_OFFL_SIR_GOPN_2_20210817T14105_20210817T1415538_C001  CS_OFFL_SIR_GOPN_2_20210817T14105_20210817T1415	CS_OFFL_SIR_GOPN_2_20210817T112224_20210817T112701_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality PLRM. OCOG Altimeter Range SSHA, SWH and Backscatter Quality Plags have been set for on or more records.  OCOG Altimeter Range and Backscatter Quality Plags have been set for on or more records.  The OCOG Range and Backscatter Quality Plags have been set for on or more records.  The OCOG Range and Backscatter Quality Plags have been set for on or more records.  The OCOG Altimeter Range and Backscatter Quality Plags have be set for one or more records.  OCOG Altimeter Range and Backscatter Quality Plags have be set for one or more records.  The OCOG Range and Backscatter Quality Plags have be set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Plags have be set for one or more records.  The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Plags have be set for one or more records.  OCOG Altimeter Range and Backscatter Quality Plags have be set for one or more records.  The Ocoan Altimeter Range, SSHA SWH and Backscatter Quality Plags have be set for one or more records.  OCOG Altimeter Range and Backscatter Quality Plags have be set for one or more records.  OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Back	CS_OFFL_SIR_GOPN_2_20210817T112747_20210817T112909_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T120804_20210817T120832_C001  CS_OFFL_SIR_GOPN_2_20210817T120804_20210817T120925_C001  CS_OFFL_SIR_GOPN_2_20210817T121343_20210817T121633_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134838_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134838_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141444_C001  CS_OFFL_SIR_GOPN_2_20210817T141155_20210817T141444_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141333_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T141333_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CCG_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CCG_OFFL_SIR_GOPN_2_202	CS_OFFL_SIR_GOPN_2_20210817T113305_20210817T113508_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T12084_20210817T121633_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T121633_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134838_C001  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134838_C001  CS_OFFL_SIR_GOPN_2_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141155_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T141353_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPN_2_20210817T120502_20210817T120639_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Altimeter Range and Backscatter Quality PLRM. COOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134838_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141155_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T1413031_20210817T14153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143031_2021081	CS_OFFL_SIR_GOPN_2_20210817T120804_20210817T120925_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.  CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141444_C001  CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T14153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T1423031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210	CS_OFFL_SIR_GOPN_2_20210817T121343_20210817T121633_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T1415538_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.  CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001  CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T14205_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_00000000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20210817T134451_20210817T134838_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141644_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.	CS_OFFL_SIR_GOPN_2_20210817T135424_20210817T135538_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.  The OCOG Range and Backscatter Quality Flags have been set for on or more records.	CS_OFFL_SIR_GOPN_2_20210817T141115_20210817T141449_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T142031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20210817T141505_20210817T141644_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.	CS_OFFL_SIR_GOPN_2_20210817T142325_20210817T142523_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  and the OCOG Altimeter Range and Backscatter Quality PLRM  and the OCOG Altimeter Range and Backscatter Quality PLRM  set for one or more records.	CS_OFFL_SIR_GOPN_2_20210817T143031_20210817T143153_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_GOPN_2_20210817T152428_20210817T152744_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T153256_20210817T153418_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on or more records.	CS_OFFL_SIR_GOPN_2_20210817T153256_20210817T153418_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20210817T155420_20210817T155716_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for on or more records.	CS_OFFL_SIR_GOPN_2_20210817T155420_20210817T155716_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPN_2_20210817T160517_20210817T160522_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_20210817T170144_20210817T170547_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_20210817T175106_20210817T175319_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_20210817T175422_20210817T175540_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_20210817T194750_20210817T195118_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_20210817T201906_20210817T202050_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_20210817T202738_20210817T203352_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_20210817T210446_20210817T210609_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_20210817T210930_20210817T211154_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_20210817T211156_20210817T211345_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_20210817T215825_20210817T220029_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_20210817T220656_20210817T221018_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_20210817T224818_20210817T225207_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for on or more records.	
CS_OFFL_SIR_GOPN_2_20210817T233756_20210817T234018_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_20210817T234800_20210817T234914_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_20210817T011925_20210817T012701_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_20210817T015618_20210817T020135_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_20210817T020543_20210817T020819_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_20210817T021846_20210817T022319_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_20210817T025851_20210817T030518_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_20210817T030518_20210817T030702_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_20210817T031029_20210817T031357_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_20210817T031658_20210817T032019_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_20210817T034335_20210817T034747_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_20210817T035728_20210817T040127_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_20210817T043659_20210817T044419_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_20210817T044848_20210817T045613_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_20210817T045748_20210817T045901_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T052325_20210817T052809_C001	PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20210817T053845_20210817T054106_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_20210817T061849_20210817T062314_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_20210817T062314_20210817T062427_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_20210817T075639_20210817T080144_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_20210817T091330_20210817T092059_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_20210817T092059_20210817T092220_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_20210817T093633_20210817T094244_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_20210817T111356_20210817T111626_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_20210817T111808_20210817T112223_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_20210817T120243_20210817T120502_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_20210817T121633_20210817T121839_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_20210817T125634_20210817T130307_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_20210817T134018_20210817T134451_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_20210817T135538_20210817T135748_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_20210817T144516_20210817T144556_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_20210817T152032_20210817T152428_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_20210817T153419_20210817T153833_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_20210817T160642_20210817T160746_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_20210817T160746_20210817T161234_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_20210817T161406_20210817T161524_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_20210817T161611_20210817T162428_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_20210817T165930_20210817T170144_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_20210817T171313_20210817T171702_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_20210817T175541_20210817T180308_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_20210817T183856_20210817T183952_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_20210817T185057_20210817T185754_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_20210817T193453_20210817T194014_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_20210817T200605_20210817T200629_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_20210817T203750_20210817T204003_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_20210817T211956_20210817T212101_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_20210817T212556_20210817T212630_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_20210817T213427_20210817T214208_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_20210817T215651_20210817T215825_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_20210817T221018_20210817T221241_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_20210817T223826_20210817T223958_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_20210817T225749_20210817T230030_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_20210817T233550_20210817T233756_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

65

> 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.

Number of products with errors:

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

### 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:

### 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:

#### 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.

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20210817T003512_20210817T012451_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_20210817T012451_20210817T021426_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_20210817T021426_20210817T030406_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_20210817T030406_20210817T035341_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_20210817T035341_20210817T044320_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_2_20210817T044320_20210817T053256_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_20210817T053256_20210817T062235_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_20210817T062235_20210817T071210_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_2_20210817T071210_20210817T080149_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_20210817T080149_20210817T085125_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20210817T085125_20210817T094104_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_20210817T094104_20210817T103039_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_20210817T103039_20210817T112019_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_20210817T112019_20210817T120954_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_20210817T120954_20210817T125934_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_20210817T125934_20210817T134909_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_20210817T134909_20210817T143848_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_20210817T143848_20210817T152824_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_20210817T152824_20210817T161803_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_20210817T161803_20210817T170738_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_20210817T170738_20210817T175718_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_20210817T175718_20210817T184653_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_20210817T184653_20210817T193632_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20210817T193632_20210817T202607_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_20210817T202607_20210817T211547_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_220210817T211547_20210817T220522_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_20210817T220522_20210817T225502_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_20210817T225502_20210817T234437_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_220210817T234437_20210818T003416_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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

3

CS\_OFFL\_SIR\_GOP\_2\_20210817T044320\_20210817T053256\_C001

Power scaling error

There is an error in the scaling of the L2 waveform for one or more records

CS\_OFFL\_SIR\_GOP\_2\_20210817T080149\_20210817T085125\_C001

Power scaling error

Power scaling error

There is an error in the scaling of the L2 waveform for one or more records

There is an error in the scaling of the L2 waveform for one or more records

There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20Hz)

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

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

Number of products with errors:

#### P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 30

#### P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

#### 6.8 P2P Ocean Retracking Quality Check

#### P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 2

#### P2P Retracking Flags PLRM

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

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

Number of products with errors:

# 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	169	169	1	168	0
SIR_GOPR1B	108	108	0	108	0
SIR_GOPN1B	106	106	2	104	0
SIR_GOPM_2	169	169	115	54	0
SIR_GOPR_2	108	108	31	77	0
SIR_GOPN_2	106	106	43	63	0
SIR GOP P2P	29	29	0	29	0

# 7.1 QCC Errors

Number of QCC reports with errors:

0

# 7.2 QCC Warnings

Number of QCC reports with warnings

2249

Total numb	er of occurrences of	each warning

-	rotal number of occurrences of each warning							
	Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
ſ	SIR_GOPM1B	168	0	0	0	0	0	0
ı	SIR_GOPM_2	0	37	39	0	39	0	31
	SIR_GOPN1B	102	0	0	0	0	0	0
ľ	SIR_GOPN_2	0	11	36	5	28	32	23
	SIR_GOPR1B	104	0	0	0	0	0	0
	SIR_GOPR_2	0	46	44	0	41	34	19

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR GOPM1B	0	0	0	0	0	0	0
SIR GOPM 2	0	31	0	0	0	0	27
SIR GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	1	0	0	27	0	37	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	3	0	47	0	54	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	3	28	0	4	38
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	33	19	49	57	33	35
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	45	0	1	63	45	7	43

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	-
SIR_GOPM1B	0	0	0	0	0		
SIR_GOPM_2	0	4	0	0	0		
SIR_GOPN1B	0	0	0	50	1		
SIR_GOPN_2	33	15	3	0	0		
SIR_GOPR1B	0	0	0	108	4		
SIR_GOPR_2	50	3	1	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCE	RBSZOPOEPNCDF
SIR_GOP_2_	18	29	29	4	29	18	28
		•	•				

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	3	18		23	17	29	18

SIR_GOP_2_	25	29	19	14	29						
Test Description Key:											
Abbreviation	Test name			Details	Details						
BCSHNCDF	BurstCounterStep20HzNetCDF				The burst counter should be one higher with regard to the previous burst counter						
MVIOEPFDNCDF	MissingValueIntOceanExclu	dingPolarFD2NetCDF		The value shou	uld not be a 'missing value'	for surface typ	e 0 only for latitudes betwe	en -70 and 70 de	grees		
MVIOEPNCDF	MissingValueIntOceanExclu	dingPolarNetCDF		The value shou	uld not be a 'missing value'	for surface typ	e 0 only for latitudes betwe	en -70 and 70 de	grees		
MVIONCDF	MissingValueIntOceanNetC	DF		The value shou	uld not be a 'missing value'	for surface typ	e 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZe	oOPOceanExcludingPol	arFD2NetCDF	The backscatte between -70 ar	er sigma zero should be bet	ween 700 and	7500 (or missing) for surfa	ce type = ocean f	or latitudes		
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZer	oOPOceanExcludingPol	arFD2PLRMNetCDF		er sigma zero should be bet	ween 700 and	7500 (or missing) for surfa	ce type = ocean f	or latitudes		
RBSZOPOEPNCDF	RangeBackscatterSigmaZe	oOPOceanExcludingPol	arNetCDF		er sigma zero should be bet	ween 700 and	7500 (or missing) for surfa	ce type = ocean f	or latitudes		
RNELPOTONCDF	RangeNELPOceanTideOce	anNetCDF			brium long period ocean loa	ading tide heig	ht should be between -40m	m and 40mm (or	missing) for		
RPEPOPFDLRMNCDF	RangePeakinessExcludingF	olarOPFD2LRMNetCDF			should be between 0 and 6	6400 (or missir	ng) for surface type = ocea	n for latitudes bet	ween -70		
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingF	olarOPFD2PLRMSARN	etCDF		should be between 0 and	15000 (or miss	ing) for surface type = oce	an for latitudes be	tween -70		
RPEPOPFDPLRMSINN	RangePeakinessExcludingF	olarOPFD2PLRMSINNe	tCDF		should be between 0 and 9	90000 (or miss	ing) for surface type = oce	an for latitudes be	tween -70		
RPEPOPFDSARNCDF	RangePeakinessExcludingF	olarOPFD2SARNetCDF			should be between 0 and	15000 (or miss	ing) for surface type = oce	an for latitudes be	tween -70		
RPEPOPFDSINNCDF	RangePeakinessExcludingF	olarOPFD2SINNetCDF		The Peakiness	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPLRMNCDF	RangePeakinessExcludingF	olarOPLRMNetCDF		The Peakiness	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees						
RPEPOPSARNCDF	RangePeakinessExcludingF	olarOPSARNetCDF			should be between 0 and	15000 (or miss	ing) for surface type = oce	an for latitudes be	tween -70		
RPEPOPSINNCDF	RangePeakinessExcludingF	olarOPSINNetCDF			should be between 0 and	90000 (or miss	ing) for surface type = oce	an for latitudes be	tween -70		
RSSBCONCDF	RangeSeaStateBiasCorrect	onOceanNetCDF			pias correction should be be	etween -500mr	m and 0mm (or missing) for	surface type = or	cean		
RSSHAOFDNCDF	RangeSeaSurfaceHeightAn	omalyOceanFD3NetCDF		The sea surfac	e height anomaly should be	e between -300	00mm and 3000mm (or mis	sing) for surface	type =		
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAn	omalyOceanFD3PLRMN	etCDF		e height anomaly should be	e between -300	00mm and 3000mm (or mis	sing) for surface	type =		
RSSHAONCDF	RangeSeaSurfaceHeightAn	omalyOceanNetCDF			e height anomaly should be	e between -300	00mm and 3000mm (or mis	sing) for surface	type =		
RSWHOEPFDNCDF	RangeSignificantWaveHeigl	ntOceanExcludingPolarF	D2NetCDF	The significant	wave height should be betten -70 and 70 degrees	ween 0mm and	d 15000mm (or missing) for	surface type = or	cean for		
RSWHOEPFDPLRMN CDF	RangeSignificantWaveHeigl	ntOceanExcludingPolarF	D2PLRMNetCDF	The significant	wave height should be better -70 and 70 degrees	ween 0mm and	d 15000mm (or missing) for	surface type = or	cean for		
RSWHOEPNCDF	RangeSignificantWaveHeigl	ntOceanExcludingPolarN	letCDF	The significant	wave height should be better 170 and 70 degrees	ween 0mm and	d 15000mm (or missing) for	surface type = o	cean for		
SOOHHIFHD	SameOrOneHigher1HzInde	xFor20HzData			of a 20 Hz sample should	be the same o	r 1 higher than its previous	sample			
SCSTODHRNCDF	SequenceCounterStepTOD	HRNetCDF		The sequence	counter should be modulo	4 higher with re	egard to the previous seque	ence counter			
SCSTODNCDF	SequenceCounterStepTOD	NetCDF		The sequence	counter should be one high	er (modulo 16	384) with regard to the pre-	vious sequence c	ounter		

SPHLPQWNCDF

RSWHOEPFDNCDF RSWHOEPFDPLRMNCDF RSWHOEPNCDF

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

Product Type RSSHAONCDF