

# IDEAS+ Daily Report for GOP data:

# <u>17/09/2019</u>

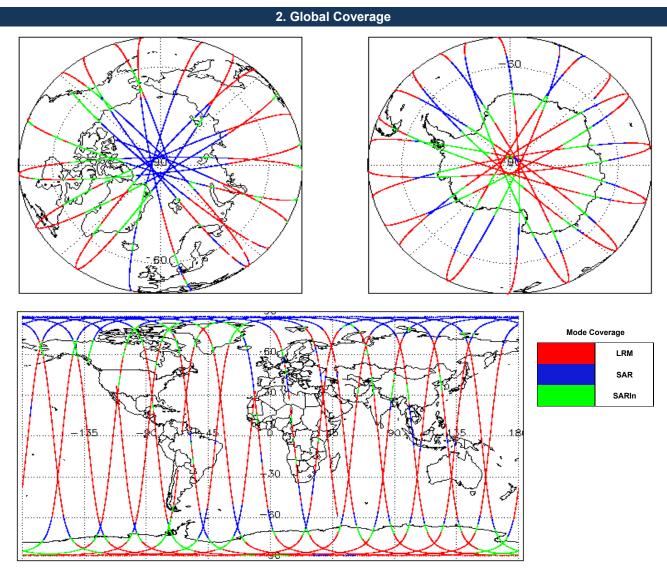
1. Overview				
	17.0 1 0010	Check	L1 & L2	P2P
Report Production:	17-Oct-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Cause Set Oscar Dresses	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

#### Mission / Instrument News

#### 16-Sep-2019 None

17-Sep-2019 SIRAL unavailability on 17-Sep-2019 from 13:54:41 to 15:49:40 due to a planned orbit manoeuvre.

# 18-Sep-2019 Nothing planned



# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

# 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).

For all products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any inconsis	tencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1I OSARIn chains. A modification is required in the next release.	B GOPR and GOPN products becaus	e the I1b_processing_quality_hr field is not correctly configured in the OSAR an
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-	e-determined baseline and also to che	ck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement recor	d. The bit value of this flag indicates a	ny 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 measurer	nent record. The bit value of this flag i	ndicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR prod	lucts due to a configuration issue. This	s is being investigated and will be updated in the next SW update.
Number of products with errors: 2		
Product	Test Failed	Description
	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20190917T201723_20190917T202659_C001		There is an error in the scaling of the L1B waveform for one or more

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.

12

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20190917T065356_20190917T070946_C001		The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190917T185901_20190917T191621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190917T232943_20190917T233721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T035437_20190917T035715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T070946_20190917T071247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T162408_20190917T162932_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T171502_20190917T171925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T185359_20190917T185511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T185638_20190917T185901_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T203319_20190917T203543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190917T203556_20190917T203742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190917T045359_20190917T050001_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).

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

55

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190917T003414_20190917T003531_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPM_2_20190917T104021_20190917T104402_C001	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 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_GOPM_2_20190917T154940_20190917T155413_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPM_2_20190917T181046_20190917T182540_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20190917T234020_20190917T234706_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20190917T012648_20190917T013000_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_20190917T013520_20190917T013636_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_20190917T030529_20190917T030848_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_20190917T031416_20190917T031541_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_20190917T035437_20190917T035715_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_20190917T035718_20190917T035753_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_20190917T045218_20190917T045358_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_20190917T053553_20190917T053650_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_20190917T062111_20190917T062252_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_20190917T063003_20190917T063217_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_20190917T071351_20190917T071604_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_20190917T080021_20190917T080208_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_20190917T080854_20190917T081346_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_20190917T085032_20190917T085428_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_20190917T095003_20190917T095157_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_20190917T134738_20190917T134816_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_20190917T161906_20190917T162159_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_20190917T162408_20190917T162932_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_20190917T171502_20190917T171925_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_20190917T175843_20190917T180118_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_20190917T185359_20190917T185511_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_20190917T193550_20190917T193934_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_20190917T203319_20190917T203543_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_20190917T203556_20190917T203742_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_20190917T211602_20190917T211753_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_20190917T212615_20190917T212829_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_20190917T221310_20190917T221740_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_20190917T225538_20190917T225717_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_20190917T235519_20190918T000011_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20190917T002721_20190917T002925_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_20190917T003824_20190917T004621_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_20190917T021700_20190917T022522_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_20190917T035753_20190917T040428_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_20190917T053650_20190917T054232_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_20190917T054247_20190917T054419_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPR_2_20190917T071605_20190917T071959_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_20190917T071959_20190917T072259_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_20190917T085428_20190917T085949_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_20190917T103248_20190917T103944_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_20190917T121114_20190917T121751_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_20190917T122810_20190917T122909_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_20190917T134937_20190917T135441_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190917T170930_20190917T171352_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_20190917T171352_20190917T171502_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_20190917T184719_20190917T185031_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_20190917T185031_20190917T185359_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_20190917T200444_20190917T201033_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_20190917T202659_20190917T203319_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_20190917T220845_20190917T221310_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_20190917T234706_20190917T235519_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

1

1

#### 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: 2		
Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190917T201723_20190917T202659_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_20190917T204239_20190917T211405_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.

83

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190917T000015_20190917T002254_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_20190917T003539_20190917T003800_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_20190917T004926_20190917T012221_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_20190917T013001_20190917T013520_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_20190917T015922_20190917T020107_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_20190917T021256_20190917T021700_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_20190917T022522_20190917T022549_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_20190917T022622_20190917T022640_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_20190917T022717_20190917T023801_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_20190917T024047_20190917T030209_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_20190917T031010_20190917T031416_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_20190917T031947_20190917T032922_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_20190917T033110_20190917T033721_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_20190917T033813_20190917T033834_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_20190917T040552_20190917T044029_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_20190917T044351_20190917T044900_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_20190917T044907_20190917T044913_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_20190917T050001_20190917T053051_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_20190917T053224_20190917T053451_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_20190917T053451_20190917T053553_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_20190917T054420_20190917T060437_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_20190917T060521_20190917T062010_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_20190917T062253_20190917T062758_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_20190917T062837_20190917T063003_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_20190917T063733_20190917T064737_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_20190917T065356_20190917T070946_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_20190917T071247_20190917T071343_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_20190917T072259_20190917T074342_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_20190917T074522_20190917T075846_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_20190917T080208_20190917T080709_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_20190917T080751_20190917T080854_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_20190917T081512_20190917T083733_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_20190917T083855_20190917T085032_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_20190917T091022_20190917T091059_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_20190917T091634_20190917T093705_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_20190917T094250_20190917T094625_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_20190917T095352_20190917T102135_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_20190917T103944_20190917T103959_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_20190917T104021_20190917T104402_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_20190917T105228_20190917T111658_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_20190917T112032_20190917T112539_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_20190917T113318_20190917T120634_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_20190917T121843_20190917T122553_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_20190917T125220_20190917T125606_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_20190917T130031_20190917T130612_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_20190917T131356_20190917T134501_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_20190917T134503_20190917T134604_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_20190917T134816_20190917T134839_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_20190917T154940_20190917T155413_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_20190917T155456_20190917T161231_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_20190917T163152_20190917T170729_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_20190917T171925_20190917T173828_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_20190917T173921_20190917T175249_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_20190917T180119_20190917T180317_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_20190917T181046_20190917T182540_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_20190917T182741_20190917T183703_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_20190917T185901_20190917T191621_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_20190917T193230_20190917T193345_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_20190917T193935_20190917T194721_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

DB_OPP_UN_COM_2_D10001TT10014_0001         Cost Allmanch Range, SBM, SWH         The Oper Allmanch Range, SBM, SWH <th></th> <th></th> <th></th>			
C2: 0FFL SR COPH 2 201091/120045 201001/120045 (2010) T20045 (2010) T200	CS_OFFL_SIR_GOPM_2_20190917T195031_20190917T200443_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Cite, DeFL, Silk, GOPAL 2, 201000171200381, 201000171200382, 201000171200381, 201000171201310, 20010       Person Allensen Rang, SSIA, SVM, SVM, and Statuscal Caudy, Marcine Rang, SSIA, SVM, and Statuscal Caudy,	CS_OFFL_SIR_GOPM_2_20190917T203545_20190917T203556_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C5. 0FL SR GOM 2 2016017720160 (2016017720160 (2017)     and Backadle Quality.CODD     and Backadle Quality.CODD       C8. 0FL SR GOM 2 2016017721602 (2016017721600 (2017)     CODD Althere Range and Sackadle Quality.CODD     The CODD Althere Range and Sackadle Quality.CODD       C8. 0FL SR GOM 2 2016017721602 (2016017721600 (2017)     CODD Althere Range and Sackadle Quality.CODD     The CODD Althere Range and Sackadle Quality.CODD       C9. 0FL SR GOM 2 2016017721602 (2016017721601 (2017)     CODD Althere Range and Sackadle Quality.CODD     The CODD Althere Range and Sackadle Quality.CODD       C9. 0FL SR GOM 2 2016017721602 (2016017721601 (2016) (2017)     CODD Althere Range and Sackadle Quality.CODD     The CODD Althere Range and Sackadle Quality.Page have been reft and backadle Quality.CODD       C9. 0FL SR GOM 2 2016017721602 (2016017721601 (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2017) (2016) (2016) (2017) (2016)	CS_OFFL_SIR_GOPM_2_20190917T203743_20190917T203843_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DBDFHSRGOPU_2_20100017720403_20100017721405_0001     All tested fings and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range and Badacaber Cuality Flags have been set and the COCO Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the COCO Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the COCO Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the Coco Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the and the Coco Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the coco Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the and the Coco Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and the coco Allineter Range SIAL SOVI and Badacaber Cuality Flags have been set and Badacaber Cuality Flags have been se	CS_OFFL_SIR_GOPM_2_20190917T203859_20190917T204116_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Display         Store or more reads.           Display         to read more reads.           Display         to read more reads.           Display         to read more reads.           Display         Display         to read more reads.           Display         Display         Display         Display           Display         Display         Display         Display         Display           Display         Display         Display         Display         Display	CS_OFFL_SIR_GOPM_2_20190917T204239_20190917T211405_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displant         Displant         Badiscoster Quility         Inc. on or more records.           CS_OFFL_SIR_GOPM_2_201809117121032_01909177216435_0001         Costan Altimeter Range, SMA, SVM and Backsoster Quility Costan         The Ocean Altimeter Range, SMA, SVM and Backsoster Quility Costan         The Ocean Altimeter Range, SMA, SVM and Backsoster Quility Flags have been altimater Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been and the OCO Altimeter Range and Backsoster Quility Flags have been asth ora cer runs record.	CS_OFFL_SIR_GOPM_2_20190917T211753_20190917T212008_C001		
CS_OFFL_SIR_GOPM_2_20190917121922_001909177229435_0001       and Baskasater Dailing, COCG Anithere Range SIMA SWH and Baskasater Dailing, Page Nave been and Baskasater Dailing, COCG Coce Anithere Range, SIMA SWH and Baskasater Dailing, Page Nave been and Baskasater Dailing, COCG Coce Anithere Range SIMA SWH and COCG Anithere Range SIMA SWH and COCG Anithere Range SIMA SWH and COCG Anithere Range SIMA SWH a	CS_OFFL_SIR_GOPM_2_20190917T212018_20190917T212614_C001		
CS_OFFL_SIR_GOPM_2.20190917T220434_20190917T220507_0001       and Backacater Quality COG Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the CoGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been and the COGO Allmeter Range and Backacater Quality Flags have been at to one or more records.         CS_OFFL_SIR_GOPN_2_201909177104402_201909177104410_C001       OCOG Allmeter Range Quality, OCOG Backacater Quality <td>CS_OFFL_SIR_GOPM_2_20190917T213022_20190917T215435_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_GOPM_2_20190917T213022_20190917T215435_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20190117122542_20190117125313_0001       and Backscatter Quality, COCG Milmeter Range and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20190017723004_201900177230423_0001       OCCG Altimeter Range Quality, OCCG Milmeter Range and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20190017723004_20190017723042_0001       Occean Milmeter Range, SSHA, SVH and Backscatter Quality, OCCG Altimeter Range, SSHA, SVH and Backscatter Quality, COCG Altimeter Range, SSHA, SVH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_20190017723004_20190017723042_0001       Occean Milmeter Range, SSHA, SVH and Backscatter Quality Flags and the OCCG Altimeter Range, SSHA, SVH and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_201900177120404_201900177102063_OU1       OCCG Altimeter Range Quality, OCCG Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_201900177104402_201900177104416_OU1       OCCG Altimeter Range Quality, OCCG Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_201900177104402_201900177105462_OU1       OCCG Altimeter Range Quality, OCCG Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_201900177105463_201900177105462_OU1 <td>CS_OFFL_SIR_GOPM_2_20190917T220434_20190917T220657_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_GOPM_2_20190917T220434_20190917T220657_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_OPTSIR_GOPM_2_20190917723064_20190917723064_201909177232640_2001         Backscatter Quality         for one or more records.           CS_OFFL_SIR_GOPM_2_201909177230641_201909177232640_2001         Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCGO Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPM_2_20190917723064_201909177234706_2001         Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPM_2_2019091771020844_2019091771020853_C001         OCGO Attimeter Range Quality, OCOG         The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2019091771020844_2019091771020853_C001         OCGO Attimeter Range Quality, OCOG         The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2019091771105413_2019091771105456_C001         OCGO Attimeter Range Quality, OCOG         The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2019091771155413_2019091771165456_C001         OCGO Attimeter Range Quality, OCOG         The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2019091771155413_2019091771165456_C001         OCGO Attimeter Range Quality, OCOG         The OCGOA Attimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_GOPN_2_2019091771165459_C001	CS_OFFL_SIR_GOPM_2_20190917T222542_20190917T225313_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20190917723041_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177234020_201909177202653_C001       Cocan Altimeter Range and Backscatter Quality Flags have been at for one or none records.         CS_OFFL_SIR_GOPM_2_201909177020644_201909177020653_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality Flags have been set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_2019091771020644_201909177104416_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality Flags have been set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_201909177104416_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality Flags have been set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_201909177115413_201909177156456_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality Flags have been set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_2019091771155413_2019091771185511_C001       OCCG Altimeter Range Quality, OCCG Backscatter Quality Flags have been set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPM_2_2019091771215415_201909177121829_C001	CS_OFFL_SIR_GOPM_2_20190917T230004_20190917T230423_C001		
CS_OFFL_SIR_GOPM_2_20190917T234020_20190917T234706_C001       And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T020844_20190917T020853_C001       CCOG 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_20190917T104402_20190917T104418_C001       CCOG 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_20190917T104402_20190917T105456_C001       CCOG Altimeter Range Quality, OCCG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T165413_20190917T185456_C001       CCOG Altimeter Range Quality, OCCG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T185359_20190917T185511_C001       OCOG Altimeter Range Quality, OCCG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T204116_20190917T204238_C001       DCOG Altimeter Range Quality, OCCG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T216415_20190917T216425_20190917T2124238_C001       DCOG Altimeter Range Quality, OCCG <b< td=""><td>CS_OFFL_SIR_GOPM_2_20190917T230941_20190917T232940_C001</td><td>and Backscatter Quality, OCOG</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></b<>	CS_OFFL_SIR_GOPM_2_20190917T230941_20190917T232940_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20190917102083_0001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T104402_20190917T104416_C001       OCOG Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T105413_20190917T165456_0001       OCOG Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T175643_20190917T165456_0001       OCOG Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T175643_20190917T16511_0001       OCOG Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T204116_20190917T204239_C001       OCOG Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212815_20190917T212829_C001       OCOG Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212815_20190917T212829_C001       OCoean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212635_20190917T212632_C001       OCoean Altimeter Range Quality. OCOG       The OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20190917T234020_20190917T234706_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20190917T104402_20190917T104416_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T155413_20190917T155456_C001       OCOG Allimeter Range Quality, OCOG       The OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T175543_20190917T18511_C001       OCOG Allimeter Range Quality, OCOG       The OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T185519_20190917T185511_C001       OCOG Allimeter Range Quality, OCOG       The OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T185519_20190917T204239_C001       OCOG Allimeter Range Quality, OCOG       The OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001       OCOG Allimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215802_C001       OCOG Allimeter Range Quality, OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215435_20190917T215802_C001       OCOG Allimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T04736_20190917T215802_C001       OCOG Allimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T0473	CS_OFFL_SIR_GOPN_2_20190917T020844_20190917T020853_C001		
CS_OFFL_SIR_GOPN_2_20190917713543_201909177180118_C001       DCOG Altimeter Range Quality       CCOG Altimeter Range Quality, DCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_201909177175843_201909177180118_C001       DCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_201909177185359_201909177185511_C001       DCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_201909177204116_201909177204239_C001       DCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_201909177212615_201909177212829_C001       DCOEan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_201909177212615_201909177212829_C001       DCean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_201909177215435_201909177215802_C001       DCCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_201909177004736_201909177004756_C001       DCCOG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL	CS_OFFL_SIR_GOPN_2_20190917T104402_20190917T104416_C001		
CS_OFFL_SIR_GOPN_2_20190917110343_201909171100116_0001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T185359_20190917T185511_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T204116_20190917T204239_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001       Ocean Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215435_20190917T215802_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T215435_20190917T215802_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104736_20190917T104756_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or m	CS_OFFL_SIR_GOPN_2_20190917T155413_20190917T155456_C001		
CS_OFFL_SIR_GOPN_2_20190917T185359_20190917T185351_C0011       Backscatter Quality       For one or more records.         CS_OFFL_SIR_GOPN_2_20190917T204116_20190917T204239_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215615_20190917T215802_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215435_20190917T215802_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T004736_20190917T004756_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Back	CS_OFFL_SIR_GOPN_2_20190917T175843_20190917T180118_C001		
CS_OFFL_SIR_GOPN_2_201909171204116_201909171204239_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality       The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215435_20190917T215802_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T204736_20190917T004756_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         Cs_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatt	CS_OFFL_SIR_GOPN_2_20190917T185359_20190917T185511_C001		
CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPN_2_20190917T215435_20190917T215802_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_20190917T004736_20190917T004756_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_20190917T004736_20190917T004756_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_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20190917T204116_20190917T204239_C001		
CS_OFFL_SIR_GOPN_Z_201909177215435_201909177215802_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPR_2_201909177004736_201909177004756_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_201909177104000_201909177104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_GOPR_2_201909177104000_201909177104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         Ocean Altimeter Range and Backscatter Quality       Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         Ocean Altimeter Range and Backscatter Quality       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20190917T212615_20190917T212829_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_201909171004736_201909171004756_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         Ocean Altimeter Range, SSHA, SWH       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPN_2_20190917T215435_20190917T215802_C001		
CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001 Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_GOPR_2_20190917T004736_20190917T004756_C001		
	CS_OFFL_SIR_GOPR_2_20190917T104000_20190917T104021_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_GOPR_2_20190917T130929_20190917T131356_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

## 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.

77

Number of products with errors: 77		
Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20190917T004621_20190917T004736_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_20190917T012648_20190917T013000_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_20190917T015423_20190917T015511_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_20190917T021129_20190917T021256_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_20190917T022640_20190917T022717_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_20190917T030529_20190917T030848_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_20190917T035437_20190917T035715_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_20190917T053051_20190917T053223_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_20190917T053553_20190917T053650_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_20190917T062111_20190917T062252_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_20190917T063003_20190917T063217_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_20190917T070946_20190917T071247_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_20190917T071351_20190917T071604_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_20190917T080021_20190917T080208_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_20190917T085032_20190917T085428_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_20190917T090925_20190917T091022_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_20190917T091059_20190917T091440_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_20190917T112914_20190917T113045_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_20190917T124028_20190917T124123_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_20190917T125914_20190917T130031_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_20190917T130814_20190917T130929_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_20190917T134605_20190917T134725_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_20190917T162408_20190917T162932_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_20190917T171502_20190917T171925_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_20190917T183704_20190917T184018_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_20190917T185359_20190917T185511_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_20190917T193550_20190917T193934_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_20190917T194721_20190917T194907_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_20190917T204116_20190917T204239_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_20190917T215435_20190917T215802_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_20190917T220658_20190917T220714_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_20190917T221310_20190917T221740_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_20190917T221822_20190917T221944_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_20190917T222320_20190917T222541_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_20190917T225538_20190917T225717_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_20190917T230423_20190917T230715_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_20190917T235519_20190918T000011_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_20190917T003246_20190917T003414_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_20190917T003824_20190917T004621_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_20190917T012221_20190917T012648_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_20190917T013636_20190917T014157_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_20190917T020418_20190917T020752_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_20190917T021700_20190917T022522_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_20190917T031542_20190917T031947_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_20190917T035753_20190917T040428_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_20190917T045359_20190917T050001_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_20190917T053650_20190917T054232_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_20190917T063217_20190917T063733_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_20190917T065144_20190917T065356_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_20190917T071605_20190917T071959_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_20190917T085428_20190917T085949_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_20190917T093705_20190917T094017_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T103248_20190917T103944_C001       Docean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         CS_OFFL_SIR_GOPR_2_20190917T111659_20190917T111858_C001       Docean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_GOPR_2_20190917T113045_20190917T113317_C001       Docean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM         CS_OFFL_SIR_GOPR_2_20190917T112083_20190917T1120849_C001       OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T1210849_C001       OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T121751_C001       Altimeter Range Quality PLRM, OCCG Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T121751_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been se	
CS_OFFL_SIR_GOPR_2_20190917T103248_20190917T103944_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T120849_C001       OCOG Altimeter Range, Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T120142_20190917T121751_C001       Ocean Altimeter Range, Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T124758_20190917T125202_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T124758_20190	0
CS_OFFL_SIR_GOPR_2_20190917T111659_20190917T111858_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM       and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T113045_20190917T113317_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T1120833_20190917T120849_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T121114_20190917T121751_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T124758_20190917T12520_C001       OCOG Altimeter Range, Quality PLRM, OCOG Backscatter Quality PLRM       The OCOG Range and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_2019091	
CS_OFFL_SIR_GOPR_2_20190917T113045_20190917T113317_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T120833_20190917T120849_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and 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 PLRM       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T121114_20190917T121751_C001       Ocog Altimeter Range and Backscatter Quality PLRM       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T124758_20190917T125220_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPR_2_20190917T120835_20190917T120849_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_GOPR_2_20190917T121114_20190917T121751_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T124758_20190917T125220_C001       OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality       The OCCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         Decean Altimeter Range and Backscatter Quality FLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.         PLRM       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records.	
CS_OFFL_SIR_GOPR_2_20190917T121114_20190917T121751_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       In the OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.         CS_OFFL_SIR_GOPR_2_20190917T124758_20190917T125220_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for more records.         CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	ne or
CS_OFFL_SIR_GOPR_2_201909171124/58_201909171125220_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001 OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH Dcean Altimeter Range, SSHA, SWH The Ocean Altimeter Range and Backscatter Quality FLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_GOPR_2_20190917T125606_20190917T125913_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH	ne or
CS_OFFL_SIR_GOPR_2_20190917T130929_20190917T131356_C001 Altimeter Range and Backscatter Quality FLRM, OCOG PLRM	
CS_OFFL_SIR_GOPR_2_20190917T134937_20190917T135441_C001 PLRM	
CS_OFFL_SIR_GOPR_2_20190917T161231_20190917T161906_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	
CS_OFFL_SIR_GOPR_2_20190917T162932_20190917T163152_C001 CS_OFFL_SIR_GOPR_2_20190917T162932_20190917T163152_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	
CS_OFFL_SIR_GOPR_2_20190917T170930_20190917T171352_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	
CS_OFFL_SIR_GOPR_2_20190917T171352_20190917T171502_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	ags Deen
CS_OFFL_SIR_GOPR_2_20190917T173828_20190917T173921_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records.	ne or
CS_OFFL_SIR_GOPR_2_20190917T175249_20190917T175843_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	
CS_OFFL_SIR_GOPR_2_20190917T184719_20190917T185031_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for more records.	ne or
CS_OFFL_SIR_GOPR_2_20190917T194907_20190917T195031_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 have pLRM.	
CS_OFFL_SIR_GOPR_2_20190917T200444_20190917T201033_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, or records.	ne or
CS_OFFL_SIR_GOPR_2_20190917T201033_20190917T201259_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter QUALITY PLRM, OC	ne or
CS_OFFL_SIR_GOPR_2_20190917T202659_20190917T203319_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG	ne or
CS_OFFL_SIR_GOPR_2_20190917T212829_20190917T213021_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	
CS_OFFL_SIR_GOPR_2_20190917T220845_20190917T221310_C001 PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.	
CS_OFFL_SIR_GOPR_2_20190917T230715_20190917T230941_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM, OCOG PLRM	
CS_OFFL_SIR_GOPR_2_20190917T234706_20190917T235519_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 have pLRM	

L2 Quality Flags (1 Hz & 1Hz PLRM)				
Currently, there are several common flags raised in the Level 2 products, whi	ch are summarised below.			
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.				
Number of products with errors: 166				
5.8 L2 Ocean Retracking Quality Check				
L2 Retracking Flags (20Hz)				
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurer	nent record. The bit value of this flag indica	ates any problems when set.		
Ocean Retracking Quality Flag: This flag is currently set for products over land an	nd sea ice, but this is to be expected. The r	number of products with this error flag set is given below.		
Number of products with errors: 63				
L2 Retracking Flags (20Hz, PLRM)				
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM me				
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GC	PR and GOPN products over sea ice, but	this is to be expected.		
Number of products with errors: 123				
6. GOP L2 I	Pole-to-Pole Data Quality	/ Check		
6.1 P2P Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensur Number of products with errors: 0	re it consists of both an XML header file (.H	IDR) and a NetCDF product file (.nc).		
6.2 P2P Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and SP	H in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.		
Number of products with errors: 0				
6.3 P2P Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-det	ermined baseline and also to check the val	idity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
6.4 P2P Auxiliary Correction Error Check				
For all products, the auxiliary corrections within the Geophysical Group are checke	d for the default error value (32767).			
Currently, there are some common auxiliary correction errors raised in the Le		to surface type. All common flags are summarised in the list below,		
followed by a table highlighting any additional issues which may arise from t > ECMWF Meteo Corrections: Currently the following corrections are not compute and the U-Wind and V-Wind components of the ECMWF model wind vector. This is	ed over CONTINENTAL ICE: Dry Troposph			
in the table below.				
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for prod > Altimetric Wind Speed Error: The error value is currently set for products over I				
Number of products with errors: 27				
Product	Test Failed	Description		
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic		
CS_OFFL_SIR_GOP_220190916T235120_20190917T004056_C001	Topography (1)	Topography height (solution 1) for one or more records		
CS_OFFL_SIR_GOP_220190917T004056_20190917T013033_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_220190917T013033_20190917T022009_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_220190917T022009_20190917T030947_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_220190917T030947_20190917T035923_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_220190917T035923_20190917T044900_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_220190917T044900_20190917T053836_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_220190917T053836_20190917T062814_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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_220190917T062814_20190917T071750_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_220190917T071750_20190917T080728_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_220190917T080728_20190917T085703_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_220190917T085703_20190917T094641_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_220190917T094641_20190917T103617_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_220190917T103617_20190917T112555_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_220190917T112555_20190917T121530_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_20190917T121530_20190917T130508_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_220190917T130508_20190917T135444_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_220190917T153357_20190917T162335_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_220190917T162335_20190917T171311_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_220190917T171311_20190917T180249_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_220190917T180249_20190917T185225_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_220190917T185225_20190917T194203_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_220190917T194203_20190917T203138_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_220190917T203138_20190917T212116_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_20190917T212116_20190917T221052_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_220190917T221052_20190917T230030_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_220190917T235005_20190918T003944_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

# 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. 2

Number of products with errors:

6.6 P2P Measurement Quality	Flag Check
P2P Quality Flags (20Hz)	
	r each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.
, , , ,	
	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	27
P2P Quality Flags (20Hz PLRM)	
Since the P2P Quality Flags are copied d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
P2P Quality Flags (1 Hz & 1Hz P	LRM)
Since the P2P Quality Flags are copied d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	28
6.8 P2P Ocean Retracking Qu	ality Check
P2P Retracking Flags (20Hz)	
	ing 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): T	his flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.
Number of products with errors:	28
P2P Retracking Flags PLRM	
CryoSat L2 data includes an ocean retrackir	ng 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): T	his flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors:

28