

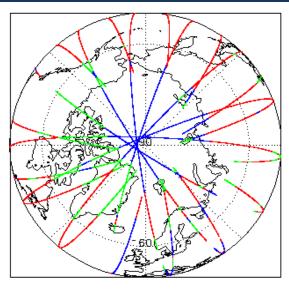
## 1. Overview

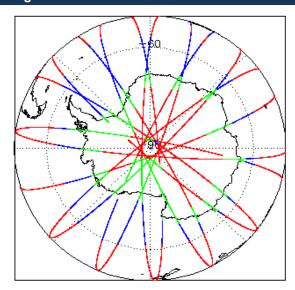
Report Production:	13-Oct-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

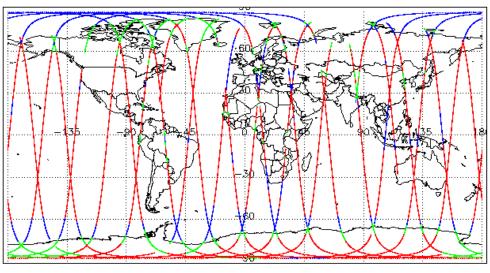
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

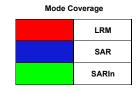
Mission / Instr	ument News
11-Oct-2020	None
12-Oct-2020	None
13-Oct-2020	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

## 4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

### 4.3 L1B Auxilary Data File Usage Check

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

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

Number of products with errors:

Λ

### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

Λ

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20201012T004331_20201012T004644_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20201012T114317_20201012T115927_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

19

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20201012T065410_20201012T065455_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201012T073008_20201012T075121_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201012T085457_20201012T093016_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201012T104041_20201012T105241_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20201012T114317_20201012T115927_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T053717_20201012T053831_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T070041_20201012T070157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T084308_20201012T084713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T102516_20201012T102609_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T120313_20201012T120524_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T184717_20201012T184743_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201012T234333_20201012T234441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T051651_20201012T051832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T052743_20201012T053534_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T065456_20201012T065652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T075122_20201012T075339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T171935_20201012T172031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T193740_20201012T194127_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201012T231505_20201012T231706_C001	Loss of Echo	The tracking echo is missing for one or more records

### 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Wind Model File Usage: This file is currently not included in all L2 products.

Number of products with errors:

0

### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20201012T114317_20201012T115927_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20201012T204425_20201012T210201_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T002919_20201012T003012_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_NOPN_2_20201012T003420_20201012T003629_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_NOPN_2_20201012T011702_20201012T011841_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T012727_20201012T012936_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T021333_20201012T021819_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_NOPN_2_20201012T035403_20201012T035931_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T043615_20201012T044008_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20201012T061603_20201012T061915_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_NOPN_2_20201012T070041_20201012T070157_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T080333_20201012T080456_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_NOPN_2_20201012T084308_20201012T084713_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20201012T094116_20201012T094302_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T102516_20201012T102609_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_NOPN_2_20201012T111917_20201012T112137_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_NOPN_2_20201012T115944_20201012T120223_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20201012T120313_20201012T120524_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20201012T125816_20201012T130250_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_NOPN_2_20201012T133956_20201012T134348_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_NOPN_2_20201012T134906_20201012T134938_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T161835_20201012T162011_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T174843_20201012T174958_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20201012T192801_20201012T192920_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_NOPN_2_20201012T193429_20201012T193740_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20201012T210855_20201012T211133_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_NOPN_2_20201012T211334_20201012T211905_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_NOPN_2_20201012T220427_20201012T220911_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_NOPN_2_20201012T224807_20201012T224854_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_NOPN_2_20201012T234333_20201012T234441_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_NOPR_2_20201012T034832_20201012T035403_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_NOPR_2_20201012T051651_20201012T051832_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20201012T052743_20201012T053534_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_NOPR_2_20201012T070607_20201012T071502_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_NOPR_2_20201012T084713_20201012T085430_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_NOPR_2_20201012T102610_20201012T103150_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_NOPR_2_20201012T120525_20201012T121211_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_NOPR_2_20201012T134349_20201012T134905_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_NOPR_2_20201012T171636_20201012T171833_C001	IMean Dynamic Lobography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20201012T233701_20201012T233919_C001	liviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

#### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

2

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20201012T004331_20201012T004644_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20201012T114317_20201012T115927_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.

93

Number of products with errors:

Test Failed Product Description The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH CS OFFL SIR NOPM 2 20201011T235111 20201012T000458 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 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR NOPM 2 20201012T000638 20201012T002155 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 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20201012T004720 20201012T005040 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20201012T005203 20201012T005658 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20201012T005913 20201012T011443 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20201012T011841 20201012T012726 C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR NOPM 2 20201012T013057 20201012T015208 C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20201012T021819 20201012T021920 C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20201012T022925 20201012T025414 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20201012T030051 20201012T030520 C001 Backscatter Quality for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Ocean Altimeter Range, SSHA, SWH CS OFFL SIR NOPM 2 20201012T031021 20201012T033401 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20201012T033403 20201012T033511 C001 Backscatter Quality for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Ocean Altimeter Range, SSHA, SWH CS OFFL SIR NOPM 2 20201012T034609 20201012T034743 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualit The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20201012T040642 20201012T043200 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20201012T044008 20201012T044559 C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR NOPM 2 20201012T044932 20201012T050702 C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been 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 Ocean Altimeter Range, SSHA, SWH CS\_OFFL\_SIR\_NOPM\_2\_20201012T052507\_20201012T052649\_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualit The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Ocean Altimeter Range, SSHA, SWH CS\_OFFL\_SIR\_NOPM\_2\_20201012T053832\_20201012T061136\_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

Backcatter Cautily  CR_CPFL_SR_NOPM_2_180019171663113_200810171063402_0001  All selection from the Common All selections from the Common	00 OFFI OID NORM O 000040407004045 000040407000404 0004	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
SOFFL SIR NOPM 2 20201912T09350 20201012T095802 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T095807 001  CS_OFFL SIR NOPM 2 20201912T09150 20201012T09150 001  CS_OFFL SIR NOPM 2 20201912T09150 20201012T09150 001  CS_OFFL SIR NOPM 2 20201912T09150 20201012T09151 001  CS_OFFL SIR NOPM 2 20201912T09150 20201012T09151 001  CS_OFFL SIR NOPM 2 20201912T09150 20201012T09151 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T09151 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T09151 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T09230 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T09330 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T09350 001  CS_OFFL SIR NOPM 2 20201912T09350 20201012T0	CS_OFFL_SIR_NOPM_2_20201012T061915_20201012T062431_C001	Backscatter Quality	for one or more records.
Search   S		and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality COGO Ammenter Range and Backscatter Quality Figsp nive box Ammenter Range and Stackscatter Quality Stage CS_OFFL_SIR_NOPM_2_20201012T071502_20201012T071545_C001  CS_OFFL_SIR_NOPM_2_20201012T071507_20201012T072721_C001  CS_OFFL_SIR_NOPM_2_20201012T071507_20201012T072721_C001  CS_OFFL_SIR_NOPM_2_20201012T071507_20201012T075121_C001  CS_OFFL_SIR_NOPM_2_20201012T070507_20201012T075121_C001  CS_OFFL_SIR_NOPM_2_20201012T070507_20201012T075121_C001  CS_OFFL_SIR_NOPM_2_20201012T070509_20201012T080303_C001  CS_OFFL_SIR_NOPM_2_20201012T080303_C001  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C001012T080303_C0010  CS_OFFL_SIR_NOPM_2_20201012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080303_C001012T080	CS_OFFL_SIR_NOPM_2_20201012T065207_20201012T065402_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Ouality in COCG Allmeter Range and Backscatter Ouality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T07925_20201012T072721_0001  CS_OFFL_SIR_NOPM_2_20201012T07925_20201012T072721_0001  CS_OFFL_SIR_NOPM_2_20201012T07925_20201012T078233_0001  CS_OFFL_SIR_NOPM_2_20201012T07925_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T07925_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_00010  CS_OFFL_SIR_NOPM_2_20201012T08233_000101  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T08233_0001  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T08233_00010  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T08233_000101  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T08233_000101  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T08233_000101  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T08233_000101  CS_OFFL_SIR_NOPM_2_20201012T08233_0001012T0823	CS_OFFL_SIR_NOPM_2_20201012T070157_20201012T070607_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscater Quality, COCG Sprig SiR_NOPM_2_20201012T07907_20201012T07912T_CO01  CS_OFFL_SiR_NOPM_2_20201012T07907_20201012T07912T_CO01  CS_OFFL_SiR_NOPM_2_20201012T07907_20201012T081840_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T081840_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T081840_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T081840_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T081840_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T080000_20201012T082740_CO01  CS_OFFL_SiR_NOPM_2_20201012T0800000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20201012T071502_20201012T071545_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscater Cuality, COCG  SeptSIR_NOPM_2_20201012T09252_20201012T090332_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T090332_CO01  CS_OFFL_SIR_NOPM_2_20201012T09009_20201012T098190_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09209_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09829_20201012T098303_CO01  CS_OFFL_SIR_NOPM_2_20201012T09829_20201012T09829_CO01  CS_OFFL_SIR_NOPM_2_20201012T09829_20201012T09829_CO01  CS_OFFL_SIR_NOPM_2_20201012T09829_20201012T09829_CO01  CS_OFFL_SIR_NOPM_2_20201012T09849_20201012T09829_CO01  CS_OFFL_SIR_NOPM_2_20201012T09839_20201012T09839_CO01  CS_OFFL_SIR_NOPM_2_20201012T09839_20201012T09839_CO01  CS_OFFL_SIR_NOPM_2_20201012T09839_20201012T09939_CO01  CS_OFFL_SIR_NOPM_2_20201012T09939_CO01012T09939_CO01  CS_OFFL_SIR_NOPM_2_20201012T09939_CO010	CS_OFFL_SIR_NOPM_2_20201012T071607_20201012T072721_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  Co. OFFL_SIR_NOPM_2_20201012T08099_20201012T081840_C001  CS_OFFL_SIR_NOPM_2_20201012T08099_20201012T081840_C001  CS_OFFL_SIR_NOPM_2_20201012T080209_20201012T082746_C001  CS_OFFL_SIR_NOPM_2_20201012T082030_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T082030_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083030_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083030_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083030_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083030_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T084255_C001  CS_OFFL_SIR_NOPM_2_20201012T084213_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T084213_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T085467_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T083337_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T083337_20201012T093116_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093116_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093116_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093116_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093116_C001  CS_OFFL_SIR_NOPM_2_20201012T093333_20201012T10932_C001  CS_OFFL_SIR_NOPM_2_20201012T093333_20201012T10932_C001  CS_OFFL_SIR_NOPM_2_20201012T093333_20201012T10932_C001  CS_OFFL_SIR_NOPM_2_20201012T109333_20201012T109340_C001  CS_OFFL_SIR_NOPM_2_20201012T109333	CS_OFFL_SIR_NOPM_2_20201012T073007_20201012T075121_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and backscatter Quality, OCO6 Altimeter Range and Backscatter Quality, OCO6 Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20201012T083455_20201012T093915_C001  OCO8 Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20201012T093815_C001012T093817_C001  OCO8 Altimeter Range Quality, OCO6 Backscatter Quality OCO6 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been and to eco or one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCO8 Altimeter Range and	CS_OFFL_SIR_NOPM_2_20201012T075925_20201012T080332_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality Flags have been steed of one or more records.  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T082830_20201012T083303_C001  CS_OFFL_SIR_NOPM_2_20201012T084213_20201012T084255_C001  CS_OFFL_SIR_NOPM_2_20201012T084213_20201012T084255_C001  CS_OFFL_SIR_NOPM_2_20201012T084213_20201012T084255_C001  CS_OFFL_SIR_NOPM_2_20201012T084255_20001  CS_OFFL_SIR_NOPM_2_20201012T085457_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T083337_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T093255_20201012T093817_C001  CS_OFFL_SIR_NOPM_2_20201012T093255_20201012T093817_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T09316_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T09316_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T09316_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T09316_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T09316_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T09316_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093317_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093317_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093317_C001  CS_OFFL_SIR_NOPM_2_20201012T093337_20201012T093317_C001  CS_OFFL_SIR_NOPM_2_20201012T0933337_20201012T093317_C001  CS_OFFL_SIR_NOPM_2_20201012T0933337_20201012T109332_C001  CS_OFFL_SIR_NOPM_2_20201012T109332_C001  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T100354_C001  CCoan Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T103333_20201012T103340_C001  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCOAN Altimeter Range and Backsca	CS_OFFL_SIR_NOPM_2_20201012T080909_20201012T081840_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have bee Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20201012T083457_20201012T093016_C001  CS_OFFL_SIR_NOPM_2_20201012T083457_20201012T093817_C001  CS_OFFL_SIR_NOPM_2_20201012T083837_20201012T093817_C001  CS_OFFL_SIR_NOPM_2_20201012T083837_20201012T093116_C001  CS_OFFL_SIR_NOPM_2_20201012T083837_20201012T094116_C001  CS_OFFL_SIR_NOPM_2_20201012T094918_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T094918_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T100156_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T100156_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T100156_20201012T1010150_C001  CS_OFFL_SIR_NOPM_2_20201012T100156_20201012T1010150_C001  CS_OFFL_SIR_NOPM_2_20201012T100156_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100150_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100150_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100150_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100150_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100150_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100150_C001012T100150_C001  CS_OFFL_SIR	CS_OFFL_SIR_NOPM_2_20201012T082028_20201012T082746_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have bee Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags Altimeter Range Altimete		and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been step for one or more records.  OCOG Altimeter Range and Backscatte	CS_OFFL_SIR_NOPM_2_20201012T084213_20201012T084255_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201012T093837_20201012T094116_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201012T093837_20201012T094116_C001  CS_OFFL_SIR_NOPM_2_20201012T094918_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T094918_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T10255_20201012T102516_C001  CS_OFFL_SIR_NOPM_2_20201012T103533_20201012T103440_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T103541_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T10541_C001  CCS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105541_C001		and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201012T094918_20201012T100150_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T100150_C001  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T10255_20201012T102516_C001  CS_OFFL_SIR_NOPM_2_20201012T103353_20201012T102516_C001  CS_OFFL_SIR_NOPM_2_20201012T103353_20201012T103440_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T1004040_20201012T100544_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T100544_C001  CS_OFFL_SIR_NOPM_2_20201012T1004040_20201012T100544_C001  CS_OFFL_SIR_NOPM_2_20201012T1004040_20201012			The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001  CS_OFFL_SIR_NOPM_2_20201012T102055_20201012T102516_C001  CS_OFFL_SIR_NOPM_2_20201012T103353_20201012T103440_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T10395	CS_OFFL_SIR_NOPM_2_20201012T093837_20201012T094116_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T102055_20201012T102516_C001  CS_OFFL_SIR_NOPM_2_20201012T103353_20201012T103440_C001  CS_OFFL_SIR_NOPM_2_20201012T103353_20201012T103440_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001  And Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001		and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  Gro one or more records.  CS_OFFL_SIR_NOPM_2_20201012T103053_20201012T103440_C001  Backscatter Quality  Gro one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been so for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been so for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been so for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been so for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been so for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been so for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been so for one or more records.	CS_OFFL_SIR_NOPM_2_20201012T100158_20201012T101932_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001  Backscatter Quality for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bee set for one or more records.  CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bee and Backscatter Quality Flags have been and Backscatter Quali	CS_OFFL_SIR_NOPM_2_20201012T102055_20201012T102516_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have bee alter Quality Flags have bee and Backscatter Quality Flags have been and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20201012T103353_20201012T103440_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have bee	CS_OFFL_SIR_NOPM_2_20201012T103539_20201012T103954_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_NOPM_2_20201012T104040_20201012T105241_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_NOPM_2_20201012T105445_20201012T110926_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201012T111215_20201012T111715_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been see for one or more records.	CS_OFFL_SIR_NOPM_2_20201012T111215_20201012T111715_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201012T111735_20201012T111746_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been so for one or more records.			The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_NOPM_2_20201012T112631_20201012T113657_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20201012T123444_20201012T124802_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_NOPM_2_20201012T125131_20201012T125627_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_NOPM_2_20201012T125634_20201012T125646_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_NOPM_2_20201012T130428_20201012T133956_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_NOPM_2_20201012T153841_20201012T154139_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_NOPM_2_20201012T154224_20201012T160627_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_NOPM_2_20201012T160959_20201012T161459_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_NOPM_2_20201012T161507_20201012T161834_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_NOPM_2_20201012T162315_20201012T165626_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_NOPM_2_20201012T170814_20201012T171052_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_NOPM_2_20201012T174148_20201012T174421_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_NOPM_2_20201012T174958_20201012T175532_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_NOPM_2_20201012T180311_20201012T183546_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_NOPM_2_20201012T183553_20201012T183737_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_NOPM_2_20201012T184744_20201012T184945_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_NOPM_2_20201012T190805_20201012T192356_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_NOPM_2_20201012T192920_20201012T193429_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_NOPM_2_20201012T194127_20201012T201637_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_NOPM_2_20201012T201642_20201012T201716_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_NOPM_2_20201012T202706_20201012T202854_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_NOPM_2_20201012T203909_20201012T204329_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_NOPM_2_20201012T204425_20201012T210201_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_NOPM_2_20201012T211134_20201012T211333_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_NOPM_2_20201012T212113_20201012T213553_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_NOPM_2_20201012T213713_20201012T213755_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_NOPM_2_20201012T214236_20201012T215520_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_NOPM_2_20201012T220912_20201012T222726_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_NOPM_2_20201012T222851_20201012T224247_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_NOPM_2_20201012T225043_20201012T225244_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_NOPM_2_20201012T230018_20201012T231504_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_NOPM_2_20201012T231706_20201012T232630_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_NOPM_2_20201012T234720_20201013T000532_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_NOPN_2_20201012T020409_20201012T020453_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_NOPN_2_20201012T052649_20201012T052712_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_NOPN_2_20201012T052716_20201012T052742_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_NOPN_2_20201012T094116_20201012T094302_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_NOPN_2_20201012T153210_20201012T153322_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_NOPN_2_20201012T172854_20201012T172909_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_NOPN_2_20201012T183546_20201012T183552_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_NOPN_2_20201012T215831_20201012T215859_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_NOPN_2_20201012T220427_20201012T220911_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_NOPR_2_20201012T040516_20201012T040641_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_NOPR_2_20201012T061137_20201012T061602_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_NOPR_2_20201012T063403_20201012T063831_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_NOPR_2_20201012T085433_20201012T085456_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_NOPR_2_20201012T124802_20201012T124928_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_NOPR_2_20201012T140410_20201012T140444_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_NOPR_2_20201012T165758_20201012T165842_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_NOPR_2_20201012T192356_20201012T192800_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.

### L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product

CS_OFFL_SIR_NOPN_2_20201012T002919_20201012T003012_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_NOPN_2_20201012T003420_20201012T003629_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_NOPN_2_20201012T003739_20201012T004007_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_NOPN_2_20201012T005041_20201012T005202_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_NOPN_2_20201012T005659_20201012T005912_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_NOPN_2_20201012T015811_20201012T015940_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_NOPN_2_20201012T020306_20201012T020324_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_NOPN_2_20201012T020409_20201012T020453_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_NOPN_2_20201012T021333_20201012T021819_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_NOPN_2_20201012T021920_20201012T022041_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_NOPN_2_20201012T025949_20201012T030051_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_NOPN_2_20201012T030520_20201012T030742_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_NOPN_2_20201012T035403_20201012T035931_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_NOPN_2_20201012T043615_20201012T044008_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_NOPN_2_20201012T044559_20201012T044725_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_NOPN_2_20201012T052200_20201012T052323_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_NOPN_2_20201012T052443_20201012T052506_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_NOPN_2_20201012T053534_20201012T053631_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_NOPN_2_20201012T062431_20201012T062540_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_NOPN_2_20201012T070041_20201012T070157_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_NOPN_2_20201012T080333_20201012T080456_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_NOPN_2_20201012T084125_20201012T084212_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_NOPN_2_20201012T084308_20201012T084713_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_NOPN_2_20201012T093127_20201012T093255_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_NOPN_2_20201012T101933_20201012T102055_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_NOPN_2_20201012T103954_20201012T104040_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_NOPN_2_20201012T111917_20201012T112137_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_NOPN_2_20201012T115944_20201012T120223_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_NOPN_2_20201012T120313_20201012T120524_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_NOPN_2_20201012T124928_20201012T125002_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_NOPN_2_20201012T125816_20201012T130250_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_NOPN_2_20201012T133956_20201012T134348_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_NOPN_2_20201012T153210_20201012T153322_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_NOPN_2_20201012T165626_20201012T165758_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_NOPN_2_20201012T172854_20201012T172909_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_NOPN_2_20201012T174843_20201012T174958_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_NOPN_2_20201012T185446_20201012T185507_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_NOPN_2_20201012T185528_20201012T185538_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_NOPN_2_20201012T190630_20201012T190805_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_NOPN_2_20201012T192801_20201012T192920_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_NOPN_2_20201012T211334_20201012T211905_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_NOPN_2_20201012T225244_20201012T225350_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_NOPN_2_20201012T232630_20201012T232917_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_NOPN_2_20201012T234333_20201012T234441_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_NOPR_2_20201012T002200_20201012T002231_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_NOPR_2_20201012T011443_20201012T011702_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_NOPR_2_20201012T015209_20201012T015248_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_NOPR_2_20201012T030742_20201012T031021_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_NOPR_2_20201012T034423_20201012T034522_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_NOPR_2_20201012T034832_20201012T035403_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_NOPR_2_20201012T043201_20201012T043614_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_NOPR_2_20201012T044725_20201012T044932_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_NOPR_2_20201012T050833_20201012T050858_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_NOPR_2_20201012T052712_20201012T052716_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_NOPR_2_20201012T052743_20201012T053534_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_NOPR_2_20201012T061137_20201012T061602_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_NOPR_2_20201012T063403_20201012T063831_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_NOPR_2_20201012T070607_20201012T071502_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_NOPR_2_20201012T080457_20201012T080908_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_NOPR_2_20201012T081840_20201012T082028_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_NOPR_2_20201012T084256_20201012T084308_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_NOPR_2_20201012T084713_20201012T085430_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_NOPR_2_20201012T093017_20201012T093127_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_NOPR_2_20201012T094302_20201012T094918_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_NOPR_2_20201012T102610_20201012T103150_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_NOPR_2_20201012T105241_20201012T105444_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_NOPR_2_20201012T114105_20201012T114223_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_NOPR_2_20201012T120525_20201012T121211_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_NOPR_2_20201012T134349_20201012T134905_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_NOPR_2_20201012T134938_20201012T135058_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_NOPR_2_20201012T160628_20201012T160828_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_NOPR_2_20201012T171053_20201012T171225_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_NOPR_2_20201012T174421_20201012T174842_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_NOPR_2_20201012T175851_20201012T180311_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_NOPR_2_20201012T185109_20201012T185417_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_NOPR_2_20201012T185628_20201012T185952_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_NOPR_2_20201012T192356_20201012T192800_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_NOPR_2_20201012T193740_20201012T194127_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_NOPR_2_20201012T210202_20201012T210854_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20201012T211905_20201012T212113_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20201012T224248_20201012T224807_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20201012T233701_20201012T233919_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

Number of products with errors:

### 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20Hz)

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

Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.

Number of products with errors:

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

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

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

Number of products with errors: 124

### 7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	150	150	1	149	0
SIR_NOPR1B	90	90	0	90	0
SIR_NOPN1B	99	99	2	97	0
SIR_NOPM_2	150	150	96	50	4
SIR_NOPR_2	90	90	26	64	0
SIR_NOPN_2	99	99	38	59	2

### 7.1 QCC Errors

Number of QCC reports with errors:

10

Total number of occurrences of each error

Product Type	EOVSNCDF	MPHSVSNCDF	-	-	-	-	-	-	-	-	-
SIR_NOPM_2	4	4									
SIR_NOPN_2	2	2									

Test Description Key:						
Abbreviation	Test name	<b>Details</b>				
EOVSNCDF	EnumOrbitVectorSourceNetCDF	Orbit vector source should match one of the allowed enumeration values - NetCDF				
MPHSVSNCDF	MPH_State_Vector_Source_NetCDF	State_Vector_Source mismatch				

### 7.2 QCC Warnings

Number of QCC reports with warnings

1627

Total number of occurrences of each warning

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_NOPM1B	149	0	0	0	0	0	0
SIR_NOPM_2	0	39	41	0	42	0	36
SIR_NOPN1B	96	0	0	0	0	0	0
SIR_NOPN_2	0	8	30	6	25	23	17
SIR_NOPR1B	89	0	0	0	0	0	0
SIR_NOPR_2	0	39	41	0	31	28	19

Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	0	0	0	28	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	22	0	29	0	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	42	0	46	0	0	41

Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	2	30	0	2	36	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	22	19	46	47	32	26	22
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	2	54	37	15	37	47

Product Type	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	-	-
SIR_NOPM1B	0	0	0	2			
SIR_NOPM_2	1	0	0	0			
SIR_NOPN1B	0	0	38	0			
SIR_NOPN_2	12	1	0	0			
SIR_NOPR1B	0	0	90	3			
SIR_NOPR_2	4	1	0	0			

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIOEPNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
RBSZOPOEPFDNCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDLRMNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSHAOFDNCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SCSTODHRNCDF	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
0	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports: