

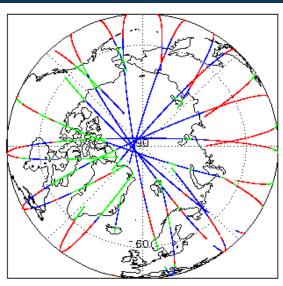
## 1. Overview

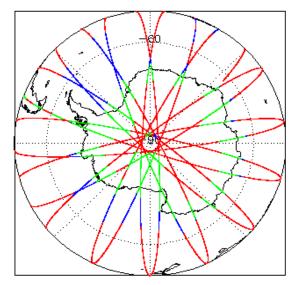
Report Production:	15-Jan-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

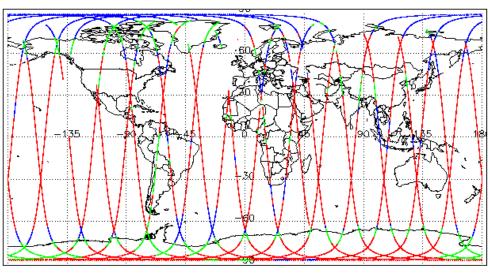
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6
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

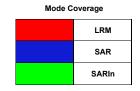
Mission / Instr	ument News
13-Jan-2021	None
14-Jan-2021	None
15-Jan-2021	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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:

Ω

#### 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:

0

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

18

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210114T034016_20210114T034459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210114T060642_20210114T062225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210114T140821_20210114T140826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210114T145203_20210114T152634_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T071111_20210114T071411_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T090108_20210114T090143_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T135847_20210114T135909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T162532_20210114T163055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T185528_20210114T185639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T194846_20210114T195032_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T203448_20210114T203713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210114T220826_20210114T220841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210114T040557_20210114T040658_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210114T040810_20210114T041013_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210114T063334_20210114T063842_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210114T070617_20210114T070826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210114T071009_20210114T071110_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210114T144935_20210114T145203_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 Corection, 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.

Number of products with errors:

45

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210114T140821_20210114T140826_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_20210114T012802_20210114T013114_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_20210114T030552_20210114T031000_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_20210114T031530_20210114T031655_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_20210114T045327_20210114T045509_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_20210114T053712_20210114T053808_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_20210114T063118_20210114T063334_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_20210114T071111_20210114T071411_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_20210114T071510_20210114T071723_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_20210114T080136_20210114T080326_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_20210114T081013_20210114T081458_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_20210114T085152_20210114T085548_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_20210114T095127_20210114T095318_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_20210114T143953_20210114T144118_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_20210114T144628_20210114T144935_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_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_20210114T162532_20210114T163055_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_20210114T171628_20210114T172053_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_20210114T180007_20210114T180242_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_20210114T185528_20210114T185639_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_20210114T193209_20210114T193350_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_20210114T193723_20210114T194057_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_20210114T203448_20210114T203713_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_20210114T203720_20210114T203841_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_20210114T211731_20210114T211921_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_20210114T212738_20210114T212959_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_20210114T221447_20210114T221913_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_20210114T002838_20210114T003039_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_20210114T003939_20210114T004736_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_20210114T021820_20210114T022713_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_20210114T035911_20210114T040557_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_20210114T053809_20210114T054350_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_20210114T054405_20210114T054528_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_20210114T060507_20210114T060641_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_20210114T070617_20210114T070826_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_20210114T071724_20210114T071748_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_20210114T071748_20210114T072411_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_20210114T085548_20210114T090108_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_20210114T121139_20210114T121413_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_20210114T122927_20210114T123034_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_20210114T140827_20210114T141202_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_20210114T190233_20210114T190413_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_NOPR_2_20210114T200813_20210114T201425_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_20210114T221013_20210114T221446_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_20210114T234716_20210114T235653_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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## 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.

Tost Failed

Description

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

Number of products with errors: 80

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210113T235934_20210114T002132_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_20210114T002136_20210114T002718_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_20210114T003657_20210114T003754_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_20210114T005037_20210114T012513_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_20210114T013114_20210114T013631_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_20210114T021407_20210114T021632_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_20210114T021749_20210114T021819_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_20210114T023043_20210114T023919_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_20210114T024205_20210114T030413_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_20210114T031124_20210114T031530_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_20210114T031735_20210114T033036_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_20210114T033224_20210114T033839_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_20210114T034016_20210114T034459_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_20210114T041014_20210114T044314_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_20210114T050116_20210114T053150_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_20210114T054645_20210114T054648_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_20210114T055126_20210114T055437_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_20210114T055439_20210114T060450_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_20210114T060642_20210114T062225_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_20210114T062411_20210114T062914_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_20210114T063843_20210114T064853_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_20210114T065513_20210114T070617_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_20210114T072934_20210114T074035_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_20210114T074221_20210114T074503_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_20210114T074643_20210114T080114_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_20210114T080327_20210114T080826_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_20210114T081459_20210114T083851_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_20210114T083937_20210114T084844_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_20210114T091807_20210114T094115_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_20210114T094411_20210114T094744_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_20210114T095358_20210114T102208_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_20210114T105337_20210114T112015_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_20210114T112154_20210114T112659_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_20210114T113423_20210114T115206_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_20210114T120326_20210114T120804_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_20210114T122852_20210114T122926_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_20210114T125345_20210114T125949_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_20210114T130154_20210114T130732_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_20210114T130843_20210114T130934_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_20210114T131333_20210114T134642_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_20210114T140038_20210114T140132_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_20210114T142006_20210114T143914_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_20210114T144119_20210114T144627_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_20210114T145203_20210114T152634_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_20210114T155107_20210114T155532_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_20210114T155623_20210114T161357_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_20210114T162325_20210114T162531_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_20210114T163234_20210114T170154_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_20210114T170707_20210114T170712_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_20210114T172133_20210114T173947_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_20210114T174208_20210114T175424_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_20210114T180558_20210114T180943_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_20210114T181127_20210114T182703_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_20210114T182905_20210114T183828_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_20210114T190132_20210114T190233_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_20210114T190614_20210114T191750_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_20210114T193629_20210114T193719_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_20210114T194057_20210114T194846_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_20210114T195104_20210114T200608_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_20210114T202228_20210114T202312_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_20210114T204411_20210114T211649_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_20210114T211921_20210114T212134_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_20210114T212149_20210114T212738_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_20210114T213014_20210114T215550_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_20210114T22912_20210114T22954_C001  CS_OFFL_SIR_NOPM_2_20210114T22955_0210114T22955_C001  CS_OFFL_SIR_NOPM_2_20210114T220132_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T230132_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T230132_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T230132_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T230132_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03055_C001  CS_OFFL_SIR_NOPM_2_20210114T03041_20210114T03045_C001  CS_OFFL_SIR_NOPM_2_20210114T03043_20210114T03045_C001  CS_OFFL_SIR_NOPM_2_20210114T03043_20210114T03045_C001  CS_OFFL_SIR_NOPM_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPM_2_20210114T130732_20210114T140305_C001  CS_OFFL_SIR_NOPM_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPM_2_20210114T162037_20210114T162256_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210114T16007_20210114T16007_C001  CS_OFFL_SIR_NOPM_2_20210	CS_OFFL_SIR_NOPM_2_20210114T215929_20210114T220415_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, COCS Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210114T230132_20210114T230556_CO01  CS_OFFL_SIR_NOPM_2_20210114T230112_20210114T230556_CO01  CS_OFFL_SIR_NOPM_2_20210114T230112_20210114T230556_CO01  CS_OFFL_SIR_NOPM_2_20210114T230112_20210114T233751_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T033656_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T033656_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T03656_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T03656_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T03656_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T03656_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T030566_CO01  CS_OFFL_SIR_NOPM_2_20210114T030562_20210114T030566_CO01  CS_OFFL_SIR_NOPM_2_20210114T030732_20210114T030566_CO01  CS_OFFL_SIR_NOPM_2_20210114T030732_20210114T030566_CO01  CS_OFFL_SIR_NOPM_2_20210114T030732_20210114T05037_CO01  CS_OFFL_SIR_NOPM_2_20210114T030732_20210114T050342_CO01  CS_OFFL_SIR_NOPM_2_20210114T030732_20210114T030562_CO01  CCOGA Altimeter Range Quality, CCCG  Backscatter Quality  CCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CCCGA Altimeter Range Quality, CCCG  Backscatter Quality  CCCGA Altimeter Range Quality, CCCG  CCC	CS_OFFL_SIR_NOPM_2_20210114T222712_20210114T222946_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20210114T23091_2021014T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23091_20210114T23055_C001  CS_OFFL_SIR_NOPM_2_20210114T23095_20210114T23721_C001  CS_OFFL_SIR_NOPM_2_20210114T23055_20210114T23721_C001  CS_OFFL_SIR_NOPM_2_20210114T00841_20210114T00856_C001  CS_OFFL_SIR_NOPM_2_20210114T00841_20210114T00856_C001  CS_OFFL_SIR_NOPM_2_20210114T00841_20210114T00856_C001  CS_OFFL_SIR_NOPM_2_20210114T081013_20210114T081458_C001  CS_OFFL_SIR_NOPM_2_20210114T08103_20210114T081458_C001  CS_OFFL_SIR_NOPM_2_20210114T108243_20210114T108337_C001  CS_OFFL_SIR_NOPM_2_20210114T108243_20210114T108342_C001  CS_OFFL_SIR_NOPM_2_20210114T16953_20210114T108442_C001  CS_OFFL_SIR_NOPM_2_20210114T16953_20210114T10842_C001  CS_OFFL_SIR_NOPM_2_20210114T16953_20210114T1148256_C001  CS_OFFL_SIR_NOPM_2_20210114T16953_20210114T1148250_C001  CS_OFFL_SIR_NOPM_2_20210114T16953_20210114T169046_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169046_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T169043_20210114T169007_C001  CS_OFFL_SIR_NOPM_2_20210114T1690946_C001  COOM Allimeter Range Guality, CCCG Allimeter Range and Backscatte	CS_OFFL_SIR_NOPM_2_20210114T222950_20210114T225454_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been and the COG Altimeter Range and Backscatter Quality Flags have been and backscatter Quality Cog Altimeter Range, SSHA, SWH and Backscatter Quality Cog Altimeter Range, SSHA, SWH and Backscatter Quality Cog Altimeter Range, SSHA, SWH and Backscatter Quality Cog Altimeter Range and Backscatter Quality Cog Altimeter Range, SSHA, SWH and Backscatter Quality Cog Altimeter Range, SSHA, SWH and Backscatter Quality Cog Altimeter Range and Backscatter Quality Cog Cog Altimeter Range and Backscatter Quality Cog Altimeter Range and Backscatter Quality Cog Cog Altimeter Range and Backscatter Quality Cog Backsca	CS_OFFL_SIR_NOPM_2_20210114T230132_20210114T230556_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, Cuality, COCG Backscatter Quality, COCG	CS_OFFL_SIR_NOPM_2_20210114T230911_20210114T233055_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPN_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPN_2_20210114T143953_20210114T144118_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CCS_OFFL_SIR_NOPR_2_20210114T1630	CS_OFFL_SIR_NOPM_2_20210114T233058_20210114T233721_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210114T1081013_20210114T1081458_C001  and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality set for one or more records.  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPN_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPN_2_20210114T143953_20210114T1418_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPR_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163007_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  COCAD Altimeter Range and Backscatter Quality  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  COCAD Altimeter Range and Backscatter Quality  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CC_OCAD Altimeter Range and Backscatter Quality  CC_OCAD Altimeter Range and	CS_OFFL_SIR_NOPN_2_20210114T003641_20210114T003656_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T130842_C001  CS_OFFL_SIR_NOPN_2_20210114T130732_20210114T130842_C001  CS_OFFL_SIR_NOPN_2_20210114T143953_20210114T144118_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T17	CS_OFFL_SIR_NOPN_2_20210114T081013_20210114T081458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210114T130/32_20210114T143953_20210114T144118_C001  Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  COCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimet	CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001		
Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T180007_2001  Co_Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Ra	CS_OFFL_SIR_NOPN_2_20210114T130732_20210114T130842_C001		
Backscatter Quality  CS_OFFL_SIR_NOPR_2_20210114T102037_20210114T1090246_C001  Backscatter Quality  CS_OFFL_SIR_NOPR_2_20210114T1090143_20210114T090246_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001  CS_OFFL_SIR_NOPR_2_20210114T1704004_C001  CS_OFFL_SIR_NOPR_2_20210114T1704004_C001  CS_OFFL_SIR_NOPR_2_20210114T1704004_C001  CS_OFFL_SIR_NOPR_2_20210114T1704004_C001  CS_OFFL_SI	CS_OFFL_SIR_NOPN_2_20210114T143953_20210114T144118_C001		
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Fl	CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001		
CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCO	CS_OFFL_SIR_NOPR_2_20210114T090143_20210114T090246_C001		
CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altim	CS_OFFL_SIR_NOPR_2_20210114T163057_20210114T163234_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20210114T203932_20210114T204004_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPR_2_20210114T175425_20210114T180007_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPR_2_20210114T203932_20210114T204004_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

## L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210114T015851_20210114T020035_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_20210114T030552_20210114T031000_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_20210114T031530_20210114T031655_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_20210114T035325_20210114T035410_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_20210114T045327_20210114T045509_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_20210114T063118_20210114T063334_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_20210114T065234_20210114T065300_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_20210114T071510_20210114T071723_C001  CS_OFFL_SIR_NOPN_2_20210114T081013_20210114T081458_C001  CS_OFFL_SIR_NOPN_2_20210114T081013_20210114T0815548_C001  CS_OFFL_SIR_NOPN_2_20210114T08152_20210114T085548_C001  CS_OFFL_SIR_NOPN_2_20210114T091228_20210114T091604_C001  CS_OFFL_SIR_NOPN_2_20210114T091228_20210114T094410_C001  CS_OFFL_SIR_NOPN_2_20210114T09223_20210114T09337_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001	e been Flags e been Flags e been r one or r one or Flags e been Flags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_20210114T091228_20210114T091604_C001  CS_OFFL_SIR_NOPN_2_20210114T094139_20210114T094410_C001  CS_OFFL_SIR_NOPN_2_20210114T094139_20210114T094410_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T1112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The OCOG Range and Backscatter Quality Flags have been set more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	e been Flags e been r one or r one or Flags e been Flags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_20210114T091228_20210114T091604_C001  CS_OFFL_SIR_NOPN_2_20210114T094139_20210114T094410_C001  CS_OFFL_SIR_NOPN_2_20210114T094139_20210114T094410_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001	e been r one or r one or r one or Flags e been Flags
CS_OFFL_SIR_NOPN_2_20210114T1091228_20210114T1094410_C001  CS_OFFL_SIR_NOPN_2_20210114T10944139_20210114T1094410_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001	r one or r one or Flags e been Flags
CS_OFFL_SIR_NOPN_2_20210114T1094139_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T105243_20210114T105337_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCO	r one or Flags e been Flags
OCOG Backscatter Quality  Inho Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH And	Flags e been Flags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPN_2_20210114T112022_20210114T112154_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocean Altimeter Range and Backscatter Quality PLRM ocean Altim	e been Flags
CS_OFFL_SIR_NOPN_2_20210114T113033_20210114T113206_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags he set for one or more records.	
	- POCI1
CS_OFFL_SIR_NOPN_2_20210114T120804_20210114T120955_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set more records.	one or
CS_OFFL_SIR_NOPN_2_20210114T124053_20210114T124247_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records.	r one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range and Backscatter Quality Flags have for one or more records.	
CS_OFFL_SIR_NOPN_2_20210114T134732_20210114T134833_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality PLRM and the OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPN_2_20210114T141918_20210114T142005_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set more records.	one or
CS_OFFL_SIR_NOPN_2_20210114T162037_20210114T162325_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records.	rone or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Range and Backscatter Quality Flags have been compared to the ocean Altimeter Rang	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality Flags have been been been been been been been be	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPN_2_20210114T183828_20210114T184135_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records.	rone or
CS_OFFL_SIR_NOPN_2_20210114T185528_20210114T185639_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records.	r one or
CS_OFFL_SIR_NOPN_2_20210114T191751_20210114T192303_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records.	r one or
CS_OFFL_SIR_NOPN_2_20210114T192424_20210114T192949_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records.	r one or
CS_OFFL_SIR_NOPN_2_20210114T193209_20210114T193350_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 PLRM and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPN_2_20210114T193723_20210114T194057_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set more records.	one or
CS_OFFL_SIR_NOPN_2_20210114T194846_20210114T195032_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records.	r one or
CS_OFFL_SIR_NOPN_2_20210114T201526_20210114T201909_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set more records.	r one or

CS_OFFL_SIR_NOPN_2_20210114T204247_20210114T204410_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_20210114T212134_20210114T212149_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_20210114T212738_20210114T212959_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_20210114T215550_20210114T215929_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_20210114T221447_20210114T221913_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_20210114T221953_20210114T222116_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_20210114T225706_20210114T225845_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_20210114T230556_20210114T230844_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_20210114T235653_20210115T000135_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_20210114T002838_20210114T003039_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_20210114T003358_20210114T003559_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_20210114T003939_20210114T004736_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_20210114T020538_20210114T020902_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_20210114T021820_20210114T022713_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_20210114T022734_20210114T022803_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_20210114T022830_20210114T023043_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_20210114T035411_20210114T035546_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_20210114T035911_20210114T040557_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_20210114T040557_20210114T040658_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_20210114T053809_20210114T054350_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_20210114T054805_20210114T054826_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_20210114T055056_20210114T055124_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_20210114T060507_20210114T060641_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_20210114T063334_20210114T063842_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_20210114T065300_20210114T065512_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_20210114T071411_20210114T071510_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.

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CS_OFFL_SIR_NOPR_2_20210114T071724_20210114T071748_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_20210114T071748_20210114T072411_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_20210114T084844_20210114T085113_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_20210114T085548_20210114T090108_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_20210114T091605_20210114T091633_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_20210114T113206_20210114T113422_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_20210114T121139_20210114T121413_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_20210114T121943_20210114T122428_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_20210114T131049_20210114T131332_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_20210114T140239_20210114T140612_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_20210114T161358_20210114T162037_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_20210114T170154_20210114T170637_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_20210114T173947_20210114T174038_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_20210114T175425_20210114T180007_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_20210114T190233_20210114T190413_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_20210114T200609_20210114T200813_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_20210114T200813_20210114T201425_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_20210114T203932_20210114T204004_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_20210114T204033_20210114T204247_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_20210114T220606_20210114T220825_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_20210114T233847_20210114T233923_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_20210114T234414_20210114T234634_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_20210114T234716_20210114T235653_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

> 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:

184

## 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20Hz)

Number of products with errors:

65

#### 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:

143

## 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	190	190	5	184	1
SIR_NOPR1B	114	114	0	114	0
SIR_NOPN1B	108	108	2	106	0
SIR_NOPM_2	190	190	142	47	1
SIR_NOPR_2	114	114	43	70	1
SIR NOPN 2	108	108	45	63	0

### 7.1 QCC Errors

#### Number of QCC reports with errors:

10

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPM1B	0	1	1	0	1	1					
SIR_NOPM_2	1	1	1	1	1	1					
SIR NOPR 2	1	1	1	1	1	1					

Test Description Key:	rest Description Key:						
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF					
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF					
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6					
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7					

## 7.2 QCC Warnings

Number of QCC reports with warnings

1727

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR_NOPM1B	185	0	0	0	0	0	0
SIR_NOPM_2	0	0	39	41	0	35	0
SIR_NOPN1B	106	0	0	0	0	0	0
SIR_NOPN_2	0	0	10	37	4	23	28
SIR_NOPR1B	112	0	0	0	0	0	0
SIR NOPR 2	0	1	28	45	1	27	19

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	28	32	0	0	0	0	25
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	21	0	0	26	0	35	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	7	0	47	0	55	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	8	29	0	0	36
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	32	17	42	49	33	27
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	47	0	2	59	25	11	35

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	•
SIR_NOPM1B	0	0	0	0	0		
SIR_NOPM_2	0	4	0	0	0		
SIR_NOPN1B	0	0	0	45	0		
SIR_NOPN_2	27	13	0	0	0		
SIR_NOPR1B	0	0	0	114	4		
SIR_NOPR_2	47	2	2	0	0		

Test Description Key:	I	
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
OHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

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