

## 1. Overview

Report Production:	13-Jun-2023	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

We would love to hear from you!

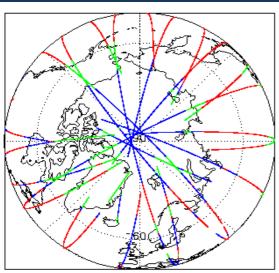
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

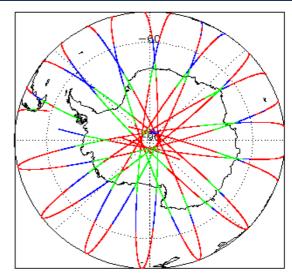
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

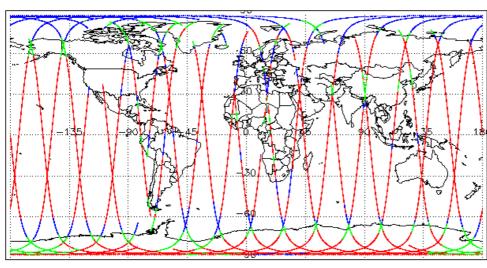
mission / mistrament news				
10-Jun-2023 None				

12-Jun-2023	Nothing planned
11-Jun-2023	None
10 0011 2020	140110

## 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

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

#### 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 NOPR and NOPN 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:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. The attitude correction is not actually missing, This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230611T000757_20230611T000950_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230611T001106_20230611T002024_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230611T041445_20230611T043442_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230611T044919_20230611T045219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230611T095947_20230611T101936_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230611T110936_20230611T112208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230611T123458_20230611T124550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230611T224331_20230611T225252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T013944_20230611T014021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T023200_20230611T023420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T031239_20230611T031318_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T062756_20230611T062852_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T123307_20230611T123458_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T163302_20230611T163436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T213054_20230611T213352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230611T222406_20230611T222538_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230611T031534_20230611T031901_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230611T053827_20230611T054218_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230611T061936_20230611T062329_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230611T112421_20230611T112541_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230611T112757_20230611T112932_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230611T130250_20230611T130556_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 NetCDF product file (.nc).

Number of products with errors:

#### 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:

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

Number of products with errors:

51

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230611T000757_20230611T000950_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20230611T012547_20230611T013231_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_NOPM_2_20230611T041445_20230611T043442_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20230611T044220_20230611T044255_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20230611T044919_20230611T045219_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_20230611T000030_20230611T000133_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_20230611T013944_20230611T014021_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_20230611T031358_20230611T031534_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_20230611T031901_20230611T031942_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_20230611T040420_20230611T040627_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_20230611T045749_20230611T045753_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_20230611T054218_20230611T054536_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_20230611T055058_20230611T055217_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_20230611T072110_20230611T072430_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_20230611T072953_20230611T073118_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_20230611T090812_20230611T090947_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_20230611T095132_20230611T095232_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_20230611T104546_20230611T104754_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_20230611T112932_20230611T113148_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_20230611T113714_20230611T113851_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_20230611T121603_20230611T121749_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_20230611T130609_20230611T131015_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_20230611T131032_20230611T131047_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_20230611T140531_20230611T140733_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_20230611T171446_20230611T171611_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_20230611T185414_20230611T185539_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_20230611T190051_20230611T190355_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_20230611T203436_20230611T203736_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_20230611T203954_20230611T204512_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_20230611T213054_20230611T213352_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_20230611T221309_20230611T221706_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_20230611T230254_20230611T230430_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_20230611T230947_20230611T231100_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_20230611T231244_20230611T231516_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_20230611T234933_20230611T235212_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_20230611T000950_20230611T001105_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_20230611T031534_20230611T031901_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_20230611T031942_20230611T032006_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_20230611T044256_20230611T044454_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_20230611T044831_20230611T044919_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_20230611T045357_20230611T045749_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_20230611T045753_20230611T050204_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_20230611T063231_20230611T064113_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_20230611T081332_20230611T082117_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_20230611T095233_20230611T095816_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_20230611T113148_20230611T113714_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_20230611T130250_20230611T130556_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_20230611T131015_20230611T131032_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_20230611T131132_20230611T131537_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_20230611T144838_20230611T145819_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_20230611T162552_20230611T163302_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230611T000757_20230611T000950_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230611T000757_20230611T000950_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230611T001106_20230611T002024_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_NOPM_2_20230611T002128_20230611T002202_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_20230611T002206_20230611T002245_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_20230611T004518_20230611T005343_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_20230611T005621_20230611T011847_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_20230611T012408_20230611T012444_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_20230611T015446_20230611T015729_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_20230611T015756_20230611T022050_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_20230611T022706_20230611T023200_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_20230611T023757_20230611T030047_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_20230611T033334_20230611T035921_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_20230611T040628_20230611T041226_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_20230611T041445_20230611T043442_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_20230611T044919_20230611T045219_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_20230611T050518_20230611T053826_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_20230611T054536_20230611T055058_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_20230611T055414_20230611T055704_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_20230611T055733_20230611T055855_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_20230611T060143_20230611T060516_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_20230611T062853_20230611T063231_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_20230611T064423_20230611T071759_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_20230611T072430_20230611T072540_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_20230611T073357_20230611T074459_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_20230611T074647_20230611T075248_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_20230611T075830_20230611T075921_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_20230611T082117_20230611T085634_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_20230611T085938_20230611T090439_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_20230611T090459_20230611T090812_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_20230611T091540_20230611T094645_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_20230611T095947_20230611T101936_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_20230611T101943_20230611T103610_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_20230611T103828_20230611T104338_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_20230611T104415_20230611T104545_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_20230611T105328_20230611T110722_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_20230611T110936_20230611T112208_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_20230611T114907_20230611T115923_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_20230611T120103_20230611T121516_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_20230611T121749_20230611T122250_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_20230611T122330_20230611T122432_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_20230611T123458_20230611T124550_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_20230611T124733_20230611T125314_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_20230611T125558_20230611T130250_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_20230611T133203_20230611T135339_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_20230611T135827_20230611T140208_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_20230611T140229_20230611T140531_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_20230611T140903_20230611T143414_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
		and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230611T143600_20230611T143712_C001		and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230611T143600_20230611T143712_C001  CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001	Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001	Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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 OCOG Altimeter Range 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 have been
CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001 CS_OFFL_SIR_NOPM_2_20230611T153610_20230611T154122_C001	Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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 OCOG Altimeter Range 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 have been set for one or more records  The 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 have been
CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001  CS_OFFL_SIR_NOPM_2_20230611T153610_20230611T154122_C001  CS_OFFL_SIR_NOPM_2_20230611T154842_20230611T162156_C001	Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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 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 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 have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001  CS_OFFL_SIR_NOPM_2_20230611T153610_20230611T154122_C001  CS_OFFL_SIR_NOPM_2_20230611T154842_20230611T162156_C001  CS_OFFL_SIR_NOPM_2_20230611T164934_20230611T165401_C001	Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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 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 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 have been set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001  CS_OFFL_SIR_NOPM_2_20230611T153610_20230611T154122_C001  CS_OFFL_SIR_NOPM_2_20230611T154842_20230611T162156_C001  CS_OFFL_SIR_NOPM_2_20230611T164934_20230611T165401_C001  CS_OFFL_SIR_NOPM_2_20230611T170801_20230611T171248_C001	Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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 OCOG Altimeter Range 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 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 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 have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230611T150832_20230611T153338_C001  CS_OFFL_SIR_NOPM_2_20230611T153610_20230611T154122_C001  CS_OFFL_SIR_NOPM_2_20230611T154842_20230611T162156_C001  CS_OFFL_SIR_NOPM_2_20230611T164934_20230611T165401_C001  CS_OFFL_SIR_NOPM_2_20230611T170801_20230611T171248_C001  CS_OFFL_SIR_NOPM_2_20230611T171611_20230611T172157_C001	Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  The Ocean Altimeter 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 OCOG Altimeter Range 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 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 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 have been set for one or more records  The OCOG Altimeter Range 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 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 have been set for one or more records

Date   All House Plays   1994   2000   11   100   2000   1	CS_OFFL_SIR_NOPM_2_20230611T182644_20230611T182754_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
December   Company   Com	CS_OFFL_SIR_NOPM_2_20230611T183901_20230611T185125_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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66_PRI_SIR_NOPM_2_2000011700104_000061170001_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700010_0001  66_PRI_SIR_NOPM_2_2000011700104_00006117000104_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_2000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_20000011700104_0000611700104_0001  66_PRI_SIR_NOPM_2_20000011700104_000104	CS_OFFL_SIR_NOPM_2_20230611T190727_20230611T194135_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bestelling   Column	CS_OFFL_SIR_NOPM_2_20230611T195311_20230611T195514_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seguester Caulty  CS OFFL SRI NOPM 2 20208611720479 20208611721429 001  CS_OFFL_SRI_NOPM_2_202086117215482_001  CS_OFFL_SRI_NOPM_2_202086117215482_001  CS_OFFL_SRI_NOPM_2_202086117215482_001  CS_OFFL_SRI_NOPM_2_202086117215482_001  CS_OFFL_SRI_NOPM_2_202086117215482_001  CS_OFFL_SRI_NOPM_2_202086117215482_001  CS_OFFL_SRI_NOPM_2_20208611720981_20208611720480 001  CS_OFFL_SRI_NOPM_2_20208611720480 001  CS_OFFL_SRI_NOPM_2_20208611704728 001  CS_	CS_OFFL_SIR_NOPM_2_20230611T201054_20230611T203021_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Baskesatter Cousty, CODE Affected Finance And Baskesatter Cousty, CODE Affected Finance and Baskesatter Cousty (Finance Finance And Baskesatter Cousty) CR_OFFL_SR_NOPM_2_202006117219309_2020611721930_CD01  CR_OFFL_SR_NOPM_2_202006117219309_2020611722019_CD01  CR_OFFL_SR_NOPM_2_202006117219309_2020611722019_CD01  CR_OFFL_SR_NOPM_2_20200611722019_2020611722019_CD01  CR_OFFL_SR_NOPM_2_20200611722019_2020611722019_CD01  CR_OFFL_SR_NOPM_2_20200611722019_2020611722019_CD01  CR_OFFL_SR_NOPM_2_2020061172019_CD01  CR_OFFL_SR_NOPM_2_2020061172019_2020611722019_CD01  CR_OFFL_SR_NOPM_2_2020061172019_CD01  CR_OFFL_SR_NOPM_2_2020061170304_CD010  CR_OFFL_SR	CS_OFFL_SIR_NOPM_2_20230611T203736_20230611T203954_C001		
CS_OFFL_SIR_NOPM_2_20200611721590_2020611722590_C001  CS_OFFL_SIR_NOPM_2_20200611721590_2020611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_2020611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_2020611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_2020611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611722590_C001  CS_OFFL_SIR_NOPM_2_20200611723590_C001  CS_OFFL_SIR_NOPM	CS_OFFL_SIR_NOPM_2_20230611T204719_20230611T212329_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCO Attracter Flange and Backscatter Quality Flags have been set for on or more seconds.  CS_OFFL_SIR_NOPM_2_20200611722196_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611722199_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611722193_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611722193_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611722193_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611722193_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611722193_20200611722193_0001  CS_OFFL_SIR_NOPM_2_20200611723190_20200611723190_0001  CS_OFFL_SIR_NOPM_2_20200611723190_20200611723190_0001  CS_OFFL_SIR_NOPM_2_20200611723190_20200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_20200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_20200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_20200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703190_0001  CS_OFFL_SIR_NOPM_2_20200611703190_202200611703400_0001  CS_OFFL_SIR_NOPM_2_20200611703400_202200611703400_0001  CS_OFFL_SIR_NOPM_2_20200611703400_202200611703400_0001  CS_OFFL_SIR_NOPM_2_20200611703400_20200611703400_0001  CS_OFFL_SIR_NOPM_2_20200611703400_202006117000400_0001  CCS_OFFL_SI	CS_OFFL_SIR_NOPM_2_20230611T213540_20230611T215439_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NORM_2_80206111722419_20206117224128_0001  CS_OFFL_SIR_NORM_2_8020611722431_20206117224128_0001  CS_OFFL_SIR_NORM_2_8020611722431_20206117225252_0001  CS_OFFL_SIR_NORM_2_8020611722431_20206117225252_0001  CS_OFFL_SIR_NORM_2_8020611722431_20206117225252_0001  CS_OFFL_SIR_NORM_2_8020611722431_20206117225252_0001  CS_OFFL_SIR_NORM_2_802061172344_2020611704021_0001  CS_OFFL_SIR_NORM_2_802061170344_2020611704021_0001  CS_OFFL_SIR_NORM_2_802061170344_2020611704021_0001  CS_OFFL_SIR_NORM_2_802061170344_2020611704021_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_802061170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_8020661170344_20206611703420_0001  CS_OFFL_SIR_NORM_2_80206611703420_0001  CS_OFFL_SIR_NORM_2_80206611703420_00001  CS_OFFL_SIR_NORM_2_80206611703420_00001  CS_OFFL_SIR_NORM_2_80206611703420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706420_00001  CS_OFFL_SIR_NORM_2_80206611706444_0001  COOR Altimeter Range Quality, OCOOR Backscatter Coulity	CS_OFFL_SIR_NOPM_2_20230611T215508_20230611T220810_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCO Altrineter Range and Backscatter Quality Flags have been altrineter Range SIA SIM and Backscatter Quality Flags have been altrineter Range SIA SIM and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPN_2_20230611723191_202306117014021_C001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117014021_C001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117014022_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_02306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031202_001  CS_OFFL_SIR_NOPN_2_202306117031203_002306117034558_001  CS_OFFL_SIR_NOPN_2_20230611703428_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703428_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703428_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_20230611703603_00306117034558_001  CCS_OFFL_SIR_NOPN_2_202306117036051_00306117034545_001  CCS_OFFL_SIR_NOPN_2_202306117036051_0030611703445_001  CCS_OFFL_SIR_NOPN_2_202306117036051_0030611703444_001	CS_OFFL_SIR_NOPM_2_20230611T221706_20230611T221903_C001		
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been affined from an or more records  CS_OFFL_SIR_NOPN_2_202306117231516_20230611723210_C001  CS_OFFL_SIR_NOPN_2_20230611703944_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611703942_20230611703403_C001  CS_OFFL_SIR_NOPN_2_20230611703702_C001  CS_OFFL_SIR_NOPN_2_202306117037042_C001  CS_OFFL_SIR_NOPN_2_202306117037040_C001  CS_OFFL_SIR_NOPN_2_202306117037040_C001  CS_OFFL_SIR_NOPN_2_20230611703402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CS_OFFL_SIR_NOPN_2_20230611705402_C001  CCC_OFFL_SIR_NOPN_2_20230611705402_C001  CCC_OFFL_SIR_NOPR_2_20230611705402_C001  CCC_OFFL_SIR_NOPR_2_20230611705402_C001  CCC_OFFL_SIR_NOPR_2_20230611705402_C001  CCC_OFFL_SIR_NOPR_2_20230611705402	CS_OFFL_SIR_NOPM_2_20230611T222619_20230611T224128_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230611T03244_20230611T03402_C001  Allmeter Range and Backscatter Quality Flags have been and Backscatter	CS_OFFL_SIR_NOPM_2_20230611T224331_20230611T225252_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 CS_OFFL_SIR_NOPN_2_20230611T031200_20230611T031202_C001  CS_OFFL_SIR_NOPN_2_20230611T031200_20230611T031202_C001  CS_OFFL_SIR_NOPN_2_20230611T045749_20230611T04573_C001  CS_OFFL_SIR_NOPN_2_20230611T045749_20230611T04573_C001  CS_OFFL_SIR_NOPN_2_20230611T045749_20230611T054578_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054578_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054578_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054578_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054578_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054578_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T05451_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T05451_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T05451_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T05451_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T05451_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T05405_C0020611T054	CS_OFFL_SIR_NOPM_2_20230611T231516_20230611T233210_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T054236_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T054236_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T05406_C001  CS_OFFL_SIR_NOPR_2_20230611T05406_C001  CS_OFFL_SIR_NOPR_2_20230611T05406_C001  CS_OFFL_SIR_NOPR_2_20230611T054546_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_NOPN_2_20230611T013944_20230611T014021_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCO Altimeter Range and Backscatter Quality, COCO Altimeter Range and Backscatter Quality, COCO Altimeter Range and Backscatter Quality, COCO Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001  CS_OFFL_SIR_NOPN_2_20230611T075248_20230611T075451_C001  CS_OFFL_SIR_NOPN_2_20230611T075248_20230611T075451_C001  CS_OFFL_SIR_NOPN_2_20230611T081035_20230611T081039_C001  CS_OFFL_SIR_NOPN_2_20230611T081035_20230611T081039_C001  CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001  CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001  CS_OFFL_SIR_NOPN_2_20230611T1321309_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPN_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CS_OFFL_SIR_NOPR_2_20230611T000551_20230611T000577_C001  CCG_Altimeter Range Quality, CCCG_Backscatter Quality Flags have been set for one or more records  The CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  The CC	CS_OFFL_SIR_NOPN_2_20230611T031200_20230611T031202_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  GS_OFFL_SIR_NOPN_2_20230611T075248_20230611T075451_C001  Backscatter Quality  GCG_Altimeter Range Quality, OCOG_Backscatter Qua	CS_OFFL_SIR_NOPN_2_20230611T045749_20230611T045753_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230611T081035_20230611T081039_C001  CS_OFFL_SIR_NOPN_2_20230611T081035_20230611T081039_C001  CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001  CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001  CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPN_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_	CS_OFFL_SIR_NOPN_2_20230611T054218_20230611T054536_C001		
Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001  Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230611T23139_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T2339_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T005545_C001  CS_OFFL_SIR_NOPR_2_20230611T00551_20230611T005545_C001  CS_OFFL_SIR_NOPR_2_20230611T005545_C001  CS_OFFL_SIR_NOPR_2_20230611T005545_C001  CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPR_2_20230611T005545_C001  CCG_Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPR_2_20230611T005545_C001  CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCG_Altimeter Ra	CS_OFFL_SIR_NOPN_2_20230611T075248_20230611T075451_C001		
Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_S	CS_OFFL_SIR_NOPN_2_20230611T081035_20230611T081039_C001		
Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001  Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_S	CS_OFFL_SIR_NOPN_2_20230611T132633_20230611T133027_C001		
CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T071759_20230611T072110_C001  CS_OFFL_SIR_NOPR_2_20230611T071759_20230611T072110_C001  CCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPR_2_20230611T0771759_20230611T072110_C001  CCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPR_2_20230611T0771759_20230611T072110_C001  CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPR_2_20230611T0771759_20230611T072110_C001  CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  CCS_OFFL_SIR_NOPR_2_20230611T0771759_20230611T072110_C001	CS_OFFL_SIR_NOPN_2_20230611T221309_20230611T221706_C001		
CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000757_C001  Backscatter Quality  CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T04534	CS_OFFL_SIR_NOPN_2_20230611T230947_20230611T231100_C001		
Backscatter Quality  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001  CS_OFFL_SIR_NOPR_2_20230611T071759_20230611T072110_C001  Backscatter Quality  for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter	CS_OFFL_SIR_NOPR_2_20230611T000252_20230611T000444_C001		
CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality, OCOG and Hitmeter Range, SSHA, SWH and Backscatter Quality Flags and	CS_OFFL_SIR_NOPR_2_20230611T000651_20230611T000757_C001		
CS_OFFL_SIR_NOPR_2_20230611T071759_20230611T072110_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPR_2_20230611T045219_20230611T045345_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPR_2_20230611T071759_20230611T072110_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPR_2_20230611T091133_20230611T091539_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFE SIR NOPR 2 202306111131132 202306111131537 C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz 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_20230611T000208_20230611T000252_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_20230611T000444_20230611T000651_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_20230611T002556_20230611T002736_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_20230611T012021_20230611T012408_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_20230611T022301_20230611T022420_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_20230611T023200_20230611T023420_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_20230611T031358_20230611T031534_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_20230611T050204_20230611T050518_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_20230611T054218_20230611T054536_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_20230611T055058_20230611T055217_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_20230611T061107_20230611T061136_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_20230611T061314_20230611T061458_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_20230611T062420_20230611T062432_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_20230611T064113_20230611T064423_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_20230611T094709_20230611T094816_C001	OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230611T095132_20230611T095232_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_20230611T104546_20230611T104754_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_20230611T112932_20230611T113148_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_20230611T113714_20230611T113851_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_20230611T114704_20230611T114858_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_20230611T124550_20230611T124733_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_20230611T125315_20230611T125437_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_20230611T130609_20230611T131015_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_20230611T131032_20230611T131047_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_20230611T132633_20230611T133027_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_20230611T135534_20230611T135827_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_20230611T150650_20230611T150832_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_20230611T153434_20230611T153610_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_20230611T162156_20230611T162552_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_20230611T171446_20230611T171611_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_20230611T172359_20230611T172513_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_20230611T180137_20230611T180453_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_20230611T181543_20230611T181633_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_20230611T183120_20230611T183243_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_20230611T185414_20230611T185539_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_20230611T190051_20230611T190355_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_20230611T213054_20230611T213352_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_20230611T221309_20230611T221706_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_20230611T222406_20230611T222538_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_20230611T225253_20230611T225627_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_20230611T230947_20230611T231100_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_20230611T000252_20230611T000444_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_20230611T000651_20230611T000757_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_20230611T002245_20230611T002556_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_20230611T015226_20230611T015446_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_20230611T022050_20230611T022300_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_20230611T023421_20230611T023620_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_20230611T031047_20230611T031200_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_20230611T031318_20230611T031358_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230611T031534_20230611T031901_C001	PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230611T033157_20230611T033333_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_20230611T035921_20230611T040227_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_20230611T044256_20230611T044454_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_20230611T044831_20230611T044919_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_20230611T045357_20230611T045749_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_20230611T045753_20230611T050204_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_20230611T053827_20230611T054218_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_20230611T061936_20230611T062329_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_20230611T063231_20230611T064113_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_20230611T071759_20230611T072110_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_20230611T080834_20230611T081035_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_20230611T081332_20230611T082117_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_20230611T085634_20230611T085743_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_20230611T095233_20230611T095816_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_20230611T110722_20230611T110935_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_20230611T112208_20230611T112251_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_20230611T113148_20230611T113714_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_20230611T130250_20230611T130556_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_20230611T131132_20230611T131537_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_20230611T131604_20230611T131656_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_20230611T144838_20230611T145819_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_20230611T145854_20230611T150005_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_20230611T162552_20230611T163302_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_20230611T164439_20230611T164448_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_20230611T171248_20230611T171445_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_20230611T182323_20230611T182644_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_20230611T190355_20230611T190726_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_20230611T204513_20230611T204718_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_20230611T215439_20230611T215508_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_20230611T222539_20230611T222619_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_20230611T224128_20230611T224331_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_20230611T233210_20230611T233611_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

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

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

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

Number of products with errors: 190

#### 5.7 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

#### L2 Retracking Flags (20 Hz 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: 142

## 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	153	153	1	152	0
SIR_NOPR1B	103	103	0	103	0
SIR_NOPN1B	102	102	2	100	0
SIR_NOPM_2	153	153	97	56	0
SIR NOPR 2	103	103	30	73	0
SIR NOPN 2	102	102	41	61	0

#### 7.1 QCC Errors

Number of QCC reports with errors:

<b>Test Description Key:</b>		
Abbreviation	Test name	Details
,	•	

#### 7.2 QCC Warnings

Number of QCC reports with warnings 1726

1	otal	number	of	occurrences	of	each	warnin	ıq

	Total number of occurrences of each warning							
Product Type BCSHNCDF MVIOEPFDNCDF I			MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF	
SIR_NOPM1B	152	0	0	0	0	0	0	
SIR_NOPM_2	0	38	46	0	40	0	33	
SIR_NOPN1B	99	0	0	0	0	0	0	
SIR_NOPN_2	0	11	31	5	23	24	17	
SIR_NOPR1B	102	0	0	0	0	0	0	
SIR NOPR 2	0	37	50	0	34	29	11	

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	1	34	0	0	0	0	28
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	2	0	0	28	0	32	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	7	0	53	0	57	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	2	26	0	2	34
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	27	13	43	52	26	27
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	49	0	1	58	35	8	39

Product Type	RSWHOEPFDPLRMNCDF F	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•

SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	0	2	0	0	0	0	
SIR_NOPN1B	0	0	1	0	44	0	
SIR_NOPN_2	30	19	0	1	0	0	
SIR_NOPR1B	0	0	0	0	103	3	
SIR_NOPR_2	53	2	1	1	0	0	

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD F	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				
RSWHOEPFDPLRMN CDF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
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: