

## 1. Overview

Report Production:	23-May-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

We v	vould	love	to I	hear	fro	om	you!

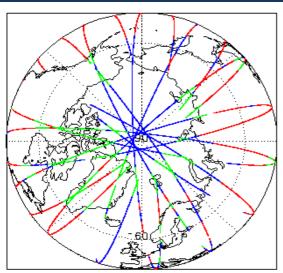
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

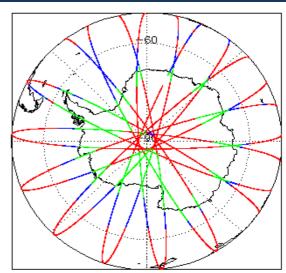
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

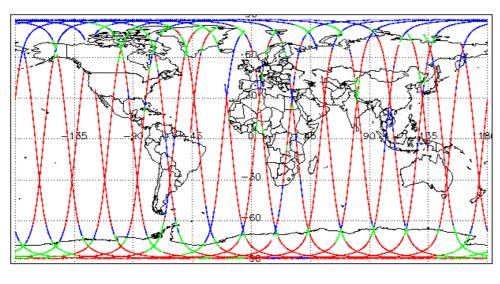
Mission / Instrument News					
11-May-2023	None				
12 May 2022	Nono				

13-May-2023 Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

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

# 4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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_20230512T153740_20230512T155816_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: 16

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230512T082610_20230512T082854_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230512T103738_20230512T110501_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230512T230701_20230512T232624_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230512T010843_20230512T011452_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230512T034749_20230512T035233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230512T070105_20230512T070146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230512T111504_20230512T111650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230512T115355_20230512T115809_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230512T233829_20230512T233949_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T034409_20230512T034748_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T065040_20230512T065148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T065533_20230512T065608_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T084134_20230512T085238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T103011_20230512T103210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T133927_20230512T134507_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230512T214756_20230512T214934_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:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 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:

### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:	36		
Product		Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230512T00012	1_20230512T000203_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_20230512T064948	5_20230512T065040_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_20230512T002205	5_20230512T002341_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_20230512T003224	4_20230512T003510_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_20230512T010843	3_20230512T011452_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_20230512T020826	6_20230512T020955_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_20230512T021131	I_20230512T021359_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_20230512T025105	5_20230512T025246_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_20230512T034221	I_20230512T034408_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_20230512T034749	9_20230512T035233_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_20230512T043923	3_20230512T044202_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_20230512T052147	7_20230512T052321_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_20230512T052624	4_20230512T052733_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_20230512T061027	7_20230512T061416_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_20230512T071128	3_20230512T071255_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230512T075008	3_20230512T075323_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_20230512T075836	6_20230512T075952_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_20230512T083949	9_20230512T084134_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20230512T093742	2_20230512T093856_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_20230512T101658	3_20230512T101856_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_20230512T101955	5_20230512T102119_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_20230512T115355	5_20230512T115809_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_20230512T115923	3_20230512T120027_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_20230512T125320	)_20230512T125712_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_20230512T133357	7_20230512T133927_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_20230512T134508	3_20230512T134611_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_20230512T143229	9_20230512T143603_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_20230512T151358	3_20230512T151750_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_20230512T151814	4_20230512T151921_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_20230512T161340	)_20230512T161522_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_20230512T19224\$	9_20230512T192314_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_20230512T192938_20230512T193252_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_20230512T210220_20230512T210334_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_20230512T210836_20230512T211154_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_20230512T224312_20230512T224548_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_20230512T224741_20230512T225407_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_20230512T233126_20230512T233306_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_20230512T233829_20230512T233949_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_NOPR_2_20230512T020405_20230512T020826_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_20230512T034409_20230512T034748_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_20230512T052322_20230512T052624_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_20230512T052733_20230512T052827_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_20230512T065040_20230512T065148_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_20230512T070146_20230512T070934_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_20230512T084134_20230512T085238_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_20230512T102119_20230512T102900_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_20230512T120028_20230512T120550_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_20230512T132913_20230512T133006_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_NOPR_2_20230512T133927_20230512T134507_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_20230512T140005_20230512T140637_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_20230512T151750_20230512T151813_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_20230512T151921_20230512T152257_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_20230512T165504_20230512T170229_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_20230512T183401_20230512T184050_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_20230512T184458_20230512T184711_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_20230512T185050_20230512T185221_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product Te	est Failed	Description
CS_OFFL_SIR_NOPM_2_20230512T153740_20230512T155816_C001	ower 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.

75

Number of products with errors:

Product

Test Failed

Description

CS_OFFL_SIR_NOPM_2_20230511T234911_20230512T000040_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_20230512T000206_20230512T001330_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_20230512T003516_20230512T005121_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_20230512T011453_20230512T011733_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_20230512T011751_20230512T012219_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_20230512T012451_20230512T013906_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_20230512T014756_20230512T015336_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_20230512T021738_20230512T022328_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_20230512T022612_20230512T024950_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_20230512T025246_20230512T030128_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_20230512T030411_20230512T032845_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_20230512T035447_20230512T040016_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_20230512T040354_20230512T042840_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_20230512T043502_20230512T043923_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_20230512T044326_20230512T051011_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_20230512T051102_20230512T051243_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_20230512T053611_20230512T060747_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_20230512T061416_20230512T062003_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_20230512T062144_20230512T062747_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_20230512T063117_20230512T063830_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_20230512T071255_20230512T074637_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_20230512T075323_20230512T075835_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_20230512T080427_20230512T081942_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_20230512T083053_20230512T083205_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_20230512T085238_20230512T092541_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_20230512T093145_20230512T093324_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_20230512T093331_20230512T093742_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_20230512T094113_20230512T100154_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_20230512T100235_20230512T100708_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_20230512T103306_20230512T103700_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_20230512T103738_20230512T110501_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_20230512T110659_20230512T111223_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_20230512T112329_20230512T113556_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_20230512T113656_20230512T115350_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_20230512T121735_20230512T122655_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_20230512T122858_20230512T124354_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_20230512T124627_20230512T125122_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_20230512T130014_20230512T131046_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_20230512T131725_20230512T132912_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_20230512T140820_20230512T142306_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_20230512T142557_20230512T143037_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_20230512T143733_20230512T150358_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_20230512T153740_20230512T155816_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_20230512T160958_20230512T161008_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_20230512T161014_20230512T161339_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_20230512T161646_20230512T164456_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_20230512T171358_20230512T174228_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_20230512T174412_20230512T174906_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_20230512T175629_20230512T183047_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_20230512T184352_20230512T184458_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_20230512T185005_20230512T185049_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_20230512T191558_20230512T191721_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_20230512T191920_20230512T192112_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_20230512T192411_20230512T192937_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_20230512T193600_20230512T200910_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_20230512T202230_20230512T202422_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_20230512T202428_20230512T202451_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_20230512T204145_20230512T210006_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_20230512T210334_20230512T210836_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_20230512T211447_20230512T214756_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_20230512T221320_20230512T223614_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_20230512T224549_20230512T224741_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_20230512T225454_20230512T230636_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_20230512T230700_20230512T232624_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_20230512T233949_20230512T234231_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_20230512T234415_20230513T000051_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T043349_20230512T043502_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T064522_20230512T064628_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T143108_20230512T143115_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T161340_20230512T161522_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T184051_20230512T184229_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T224312_20230512T224548_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230512T174229_20230512T174247_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230512T185346_20230512T185628_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230512T232625_20230512T232811_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (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
	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_20230512T010843_20230512T011452_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

CR_CPTL_SR_NOTH_2_2003051713016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051713016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051713016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051713016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051713016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051713016_2003051710302_0001  CR_CPTL_SR_NOTH_2_20030517103016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051710302_0001011001016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051710302_0001011001016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051710302_0001011001016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051710302_0001011001016_2003051710302_0001  CR_CPTL_SR_NOTH_2_2003051710302_0001011001016_20001011001016_20001011001016_20001011001016_20001011001016_20001011001016_20001011001016_200010110		OCOC Altimates Parago Quality DI DNA	The OCCC Description of Designation Couling Flora hours have set for one
and Development Asial y PLINA CODE  and CHEF, SIRN NICHN 2 SERDOSITIESDESS 2005/19730448 (2001  CELOFF, SIRN NICHN 2 SERDOSITIESDESS 2005/1973044 (20	CS_OFFL_SIR_NOPN_2_20230512T021616_20230512T021738_C001	•	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFF_SIR_NOPN_2_2000612T04082_20000612T04082_0001  CS_OFF_SIR_NOPN_2_2000612T04084_20000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_20000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_20000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_2000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_2000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_2000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_20000612T04008_0001  CS_OFF_SIR_NOPN_2_2000612T04088_200	CS_OFFL_SIR_NOPN_2_20230512T030129_20230512T030320_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Significant Prints (1997) and the control of the co	CS_OFFL_SIR_NOPN_2_20230512T032845_20230512T033118_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFF_SIR_NOPN_2_20220512T040916_20220512T040940_00205	CS_OFFL_SIR_NOPN_2_20230512T034221_20230512T034408_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFL SRI NOPN 2 2020512T043942 2020512T04942 2020512T04944 2020512	CS_OFFL_SIR_NOPN_2_20230512T034749_20230512T035233_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOD Baskscatter (Justier)  OCOD Starture Parago Coulty PUNA  OCOD Baskscatter (Justier)  OCOD Attender Parago Coulty PUNA  OCOD Baskscatter (Justier)  OCOD B	CS_OFFL_SIR_NOPN_2_20230512T040016_20230512T040048_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
COCO Backscatter Coulty FLNA CS. OFFL. SIR, NOPN 2_202005127043022 20230512704402 CO01 CS. OFFL. SIR, NOPN 2_202005127050302 20230512704020 CO01 CS. OFFL. SIR, NOPN 2_202005127050302 202305127050301 CO01 CS. OFFL. SIR, NOPN 2_202005127050302 2023051270402 CO01 CS. OFFL. SIR, NOPN 2_202005127050302 2023051270404 CO01 CS. OFFL. SIR, NOPN 2_20200512705000 20230512705030 CO01 CS. OFFL. SIR, NOPN 2_20200512705000 2023051270500 CO01 CS. OFFL. SIR, NOPN 2_2020051270500 CO01 CS. OFFL. SIR, NOPN 2_20200512710500 CO01 CS. OFFL. SIR, NOPN 2_2020051	CS_OFFL_SIR_NOPN_2_20230512T043043_20230512T043215_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512703294_20230512705231_C001  CS_OFFL_SIR_NOPN_2_20230512705291_20520512705232_C001  CS_OFFL_SIR_NOPN_2_20230512705291_20520512705232_C001  CS_OFFL_SIR_NOPN_2_20230512705291_20520512705232_C001  CS_OFFL_SIR_NOPN_2_20230512705291_20520512705232_C001  CS_OFFL_SIR_NOPN_2_202305127070105_202205127070140_C001  CS_OFFL_SIR_NOPN_2_202305127070105_202205127070140_C001  CS_OFFL_SIR_NOPN_2_202305127070105_202205127070140_C001  CS_OFFL_SIR_NOPN_2_202305127070105_202205127070140_C001  CS_OFFL_SIR_NOPN_2_20230512707006_202205127070140_C001  CS_OFFL_SIR_NOPN_2_20230512707006_202205127070523_C001  CS_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_202205127070520_C001  CCC_OFFL_SIR_NOPN_2_20230512707006_2022051270705000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20230512T043349_20230512T043502_C001	OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCCO Backscatter Quality PLRM, OCCO CS Alternoter Range Chaelity PLRM, OCCO CS Alternoter Range Chaelity PLRM, OCCO Backscatter Quality PLRM CS OFFL_SIR NOPN 2 202205127059566 20230512705757 (2001)  CS OFFL_SIR NOPN 2 202205127070105 202205127070146 (2001)  CS OFFL_SIR NOPN 2 202205127070105 202205127070146 (2001)  CS OFFL_SIR NOPN 2 202205127070054 202205127071046 (2001)  CS OFFL_SIR NOPN 2 202205127070054 (202205127071046 (2001)  CS OFFL_SIR NOPN 2 202205127070054 (202205127071046 (2001)  CS OFFL_SIR NOPN 2 202205127070068 (202205127071046 (2001)  CS OFFL_SIR NOPN 2 202205127070068 (20220512707523 (2001)  CS OFFL_SIR NOPN 2 20220512708046 (20020512707523 (2001)  CS OFFL_SIR NOPN 2 20220512708046 (20020512707523 (2001)  CS OFFL_SIR NOPN 2 20220512708046 (20020512708046 (20	CS_OFFL_SIR_NOPN_2_20230512T043923_20230512T044202_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_202305127105934_202305127105934_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_202305127075008_202305127075023_C001  CS_OFFL_SIR_NOPN_2_20230512705034_2023051270523_C001  CS_OFFL_SIR_NOPN_2_20230512705034_2023051270520_C001  CS_OFFL_SIR_NOPN_2_202305127050354_2023051270520_C001  CS_OFFL_SIR_NOPN_2_202305127050354_2023051270520_C001  CS_OFFL_SIR_NOPN_2_202305127050354_2023051270520_C001  CS_OFFL_SIR_NOPN_2_20230512705344_C001  CS_OFFL_SIR_NOPN_2_20230512705344_C001  CS_OFFL_SIR_NOPN_2_20230512705344_C001  CS_OFFL_SIR_NOPN_2_202305127053742_202305127053146_C001  CS_OFFL_SIR_NOPN_2_2023051270514_202305127053146_C001  CS_OFFL_SIR_NOPN_2_2023051270514_202305127053146_C001  CS_OFFL_SIR_NOPN_2_2023051270514_202305127053146_C001  CS_OFFL_SIR_NOPN_2_2023051270514_20230512705356_C001  CS_OFFL_SIR_NOPN_2_20230512710514_20230512710523_C001  CS_OFFL_SIR_NOPN_2_202305127105154_20230512710523_C001  CS_OFFL_SIR_NOPN_2_202305127105154_20230512710523_C001  CS_OFFL_SIR_NOPN_2_20230512710558_202305127115590_C001  CS_OFFL_SIR_NOPN_2_20230512710558_202305127115590_C001  CS_OFFL_SIR_NOPN_2_202305127115586_202305127115890_C001  CS_OFFL_SIR_NOPN_2_202305127115356_202305127115890_C001  CS_OFFL_SIR_NOPN_2_202305127153357_202305127133357_00005127152939_C001  CS_OFFL_SIR_NOPN_2_202305127133357_202305127133357_00005127133357_	CS_OFFL_SIR_NOPN_2_20230512T052147_20230512T052321_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM. COOR Allmeter Range and Backscatter Quality PLRM. COOR Construction or more records.  CS_OFFL_SIR_NOPN_2_20230512T070934_20230512T071046_C001  CS_OFFL_SIR_NOPN_2_20230512T070934_20230512T07508_20230512T081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T1081943_20230512T108194_20230512T108	CS_OFFL_SIR_NOPN_2_20230512T065608_20230512T065731_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T075008_20230512T075323_C001  CS_OFFL_SIR_NOPN_2_20230512T075008_20230512T082141_C001  CS_OFFL_SIR_NOPN_2_20230512T081943_20230512T082141_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T083145_C001  CS_OFFL_SIR_NOPN_2_20230512T083742_20230512T083856_C001  CS_OFFL_SIR_NOPN_2_20230512T083742_20230512T083856_C001  CS_OFFL_SIR_NOPN_2_20230512T1093742_20230512T09335_C001  CS_OFFL_SIR_NOPN_2_20230512T101658_20230512T101656_C001  CS_OFFL_SIR_NOPN_2_20230512T103532_20230512T101656_C001  CS_OFFL_SIR_NOPN_2_20230512T10553_20230512T101656_C001  CS_OFFL_SIR_NOPN_2_20230512T10553_20230512T10559_C001  CS_OFFL_SIR_NOPN_2_20230512T10553_20230512T10559_C001  CS_OFFL_SIR_NOPN_2_20230512T133301_20230512T133344_C001  COGG Altimeter Range Coulily PLRM, COGG Altimeter Range Goulily PLRM, COGG Altimete	CS_OFFL_SIR_NOPN_2_20230512T070105_20230512T070146_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPN_2_20230512T081943_20230512T082111_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001  CS_OFFL_SIR_NOPN_2_20230512T082727_20230512T083145_C001  CS_OFFL_SIR_NOPN_2_20230512T082727_20230512T083145_C001  CS_OFFL_SIR_NOPN_2_20230512T082727_20230512T083355_C001  CS_OFFL_SIR_NOPN_2_20230512T093742_20230512T1093556_C001  CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T1001556_C001  CS_OFFL_SIR_NOPN_2_20230512T1001556_C001  CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125339_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T13344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T13344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T13344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T13344_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T13344_C001  COCGA Altimeter Range Caughty PLRM. COCG Backscatter Quality PLRM. COCG Backsca	CS_OFFL_SIR_NOPN_2_20230512T070934_20230512T071046_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCG Backscatter Quality PLRM, OCG Altimeter Range SHA, SWH and Backscatter Quality PLRM, OCG Bac	CS_OFFL_SIR_NOPN_2_20230512T075008_20230512T075323_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, COGA Allimeter Range and Backscatter Quality PLRM, COGA Allimeter Range and Backscatter Quality PLRM, CS_OFFL_SIR_NOPN_2_202305127093727_202305127093145_C001  CS_OFFL_SIR_NOPN_2_202305127093742_202305127093856_C001  CS_OFFL_SIR_NOPN_2_202305127093742_202305127093856_C001  CS_OFFL_SIR_NOPN_2_202305127100154_2023051271093856_C001  CS_OFFL_SIR_NOPN_2_202305127100154_202305127100235_C001  CS_OFFL_SIR_NOPN_2_202305127101658_202305127100235_C001  CS_OFFL_SIR_NOPN_2_202305127101658_202305127101856_C001  CS_OFFL_SIR_NOPN_2_202305127115355_202305127115809_C001  CS_OFFL_SIR_NOPN_2_202305127125320_20230512715509_C001  CS_OFFL_SIR_NOPN_2_202305127125320_20230512715509_C001  CCGA Altimeter Range Quality PLRM, CCGA Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_202305127125320_20230512715509_C001  CCGA Altimeter Range Quality PLRM, CCGA Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_202305127125320_20230512715509_C001  CCGA Altimeter Range Quality PLRM, CCGA Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_202305127125320_20230512715509_C001  CCGA Altimeter Range Quality PLRM, CCGA Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_202305127125320_202305127125712_C001  CS_OFFL_SIR_NOPN_2_202305127133021_202305127133047_C001  CCGA Altimeter Range Quality PLRM, CCGA Backscatter Quality PLRM  CCGA Altimeter Range Quality PLRM, CCGA Altimeter Range and Backscatter Quality PLRM, CCGA Altimeter Range Quality PLRM, CCGA Altimeter Range Backscatter Quality PLRM, CCGA Altimeter Range Quality PLRM, CCGA Altimeter Range Backscatter Quality PLRM, C	CS_OFFL_SIR_NOPN_2_20230512T081943_20230512T082111_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T1093742_20230512T1093856_C001  CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T1010558_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T1010558_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T1010558_20230512T1010856_C001  CS_OFFL_SIR_NOPN_2_20230512T1010558_20230512T1010856_C001  CS_OFFL_SIR_NOPN_2_20230512T115955_20230512T1010856_C001  CS_OFFL_SIR_NOPN_2_20230512T115955_20230512T10000000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20230512T083949_20230512T084134_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T10154_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T101658_20230512T100235_C001  CS_OFFL_SIR_NOPN_2_20230512T101658_20230512T101856_C001  CS_OFFL_SIR_NOPN_2_20230512T101658_20230512T101856_C001  CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T101856_C001  CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125939_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T1333927_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T1333927_C001  CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001	CS_OFFL_SIR_NOPN_2_20230512T092727_20230512T093145_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPN_2_20230512T101658_20230512T101856_C001  CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125813_20230512T125939_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133057_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142542_20230512T1	CS_OFFL_SIR_NOPN_2_20230512T093742_20230512T093856_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T115809_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125939_C001  CS_OFFL_SIR_NOPN_2_20230512T125813_20230512T125939_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_	CS_OFFL_SIR_NOPN_2_20230512T100154_20230512T100235_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001  OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM.  CS_OFFL_SIR_NOPN_2_20230512T125813_20230512T125939_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range and Backscatter Quality Flags have been set for one or more records  The OCOG Range	CS_OFFL_SIR_NOPN_2_20230512T101658_20230512T101856_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records  The Ocoa Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records  The Ocoa Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20230512T115355_20230512T115809_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_C001  CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001  CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flag and Backs	CS_OFFL_SIR_NOPN_2_20230512T125320_20230512T125712_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T13302T_20230512T133144_C001  OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag have be set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag have be set for one or more records  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and Backscatt	CS_OFFL_SIR_NOPN_2_20230512T125813_20230512T125939_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records  CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001  and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records  CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.	CS_OFFL_SIR_NOPN_2_20230512T133021_20230512T133144_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be also be a set for one or more records.	CS_OFFL_SIR_NOPN_2_20230512T133357_20230512T133927_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_NOPN_2_20230512T142342_20230512T142557_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230512T151358_20230512T151750_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_20230512T151358_20230512T151750_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_NOPN_2_20230512T152257_20230512T152334_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_20230512T153243_20230512T153418_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_20230512T153517_20230512T153740_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_20230512T161340_20230512T161522_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_20230512T170229_20230512T170343_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_20230512T174248_20230512T174412_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_20230512T175243_20230512T175423_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_20230512T183244_20230512T183401_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_20230512T184051_20230512T184229_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_20230512T192938_20230512T193252_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_20230512T202055_20230512T202205_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_20230512T202451_20230512T202550_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_20230512T202913_20230512T203104_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_20230512T203902_20230512T204145_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_20230512T210220_20230512T210334_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_20230512T210836_20230512T211154_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_20230512T224741_20230512T225407_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_20230512T233829_20230512T233949_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_20230512T005122_20230512T005411_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_20230512T010306_20230512T010708_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_20230512T014329_20230512T014534_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_20230512T014536_20230512T014638_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_20230512T014638_20230512T014756_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_20230512T020405_20230512T020826_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_20230512T021359_20230512T021615_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_20230512T022328_20230512T022449_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_20230512T024950_20230512T025105_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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CS_OFFL_SIR_NOPR_2_20230512T033739_20230512T033902_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_20230512T042840_20230512T043043_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_20230512T051812_20230512T052147_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_20230512T052733_20230512T052827_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_20230512T060748_20230512T061027_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_20230512T065731_20230512T065806_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_20230512T070146_20230512T070934_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_20230512T071046_20230512T071128_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_20230512T074638_20230512T075008_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_20230512T084134_20230512T085238_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_20230512T093324_20230512T093330_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_20230512T102119_20230512T102900_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_20230512T103011_20230512T103210_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_20230512T103213_20230512T103242_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_20230512T103244_20230512T103259_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_20230512T110502_20230512T110535_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_20230512T111650_20230512T112328_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_20230512T120028_20230512T120550_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_20230512T124355_20230512T124444_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_20230512T131244_20230512T131503_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_20230512T131503_20230512T131625_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_20230512T131632_20230512T131724_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_20230512T132913_20230512T133006_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_20230512T133927_20230512T134507_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_20230512T140005_20230512T140637_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_20230512T150606_20230512T150611_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_20230512T151921_20230512T152257_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_20230512T152335_20230512T152530_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_20230512T165504_20230512T170229_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_20230512T170347_20230512T170619_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_20230512T175424_20230512T175629_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_20230512T183401_20230512T184050_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_20230512T184229_20230512T184351_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_20230512T184458_20230512T184711_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_20230512T185223_20230512T185236_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_20230512T202659_20230512T202850_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_20230512T214757_20230512T214934_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_20230512T223614_20230512T224312_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_20230512T232625_20230512T232811_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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

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

63

> 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:

### 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: 147

## 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	151	151	3	148	0
SIR NOPR1B	129	129	0	129	0
SIR NOPN1B	100	100	2	98	0
SIR_NOPM_2	151	151	100	51	0
SIR NOPR 2	129	129	53	76	0
SIR NOPN 2	100	100	31	69	0

### 7.1 QCC Errors

Number of QCC reports with errors:

Test Description Key:
Abbreviation Test name Details

### 7.2 QCC Warnings

Number of QCC reports with warnings

1759

Total	number	of	occurrences	of	each	warning

Product Type	I Otal number of occurrences of each warning where BCSHNCDF MYIOEPFDNCDF MYIOEPNCDF MYIOENCDF MYIOENCDF MOVIENCE RESZOPOEPFDNCDF RESZOPOEPFDRAMNCÜRBSZOPOEPNCDF							
		a contract to broad	antioli itobi	2	nbozor ozr r bitobi	n Bozor ozr i Bi zimmoz	nbozor ozr nobi	
	148	0	0	U	U	U	0	
SIR_NOPM_2	0	37	40	0	40	0	35	
SIR_NOPN1B	96	0	0	0	0	0	0	
SIR_NOPN_2	0	8	32	6	25	27	17	
SIR_NOPR1B	124	0	0	0	0	0	0	
SIR_NOPR_2	0	26	45	1	34	23	15	

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF

SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	33	0	0	0	0	28
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	0	26	0	33	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	2	0	49	0	55	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	5	22	0	5	34
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	29	17	46	60	39	26
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	47	0	3	57	40	8	33

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	-
SIR_NOPM1B	0	0	0	0	0		
SIR_NOPM_2	0	6	0	0	0		
SIR_NOPN1B	0	0	0	44	0		
SIR_NOPN_2	31	11	1	0	0		
SIR_NOPR1B	0	0	0	129	9		
SIR_NOPR_2	47	1	4	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	Missing Value Int Ocean Excluding Polar Net CDF	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				
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: