

# **QA4EO Daily Report for NOP data:**

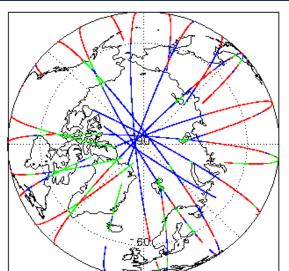
<u>31/12/2021</u>

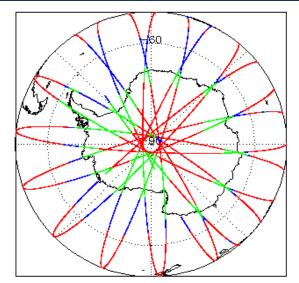
Report Production:	05-Jan-2022	Check	L1 & L2
	05-Jan-2022	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Cause Set Oscar Dresses	Server check: calval-pds.cryosat.esa.int	Nominal
	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Useu.	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

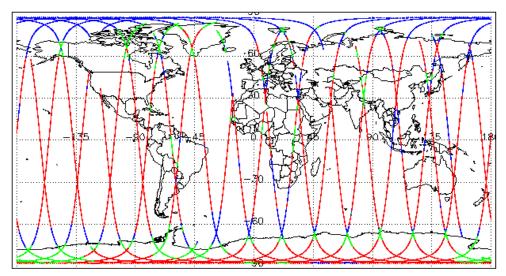
1. Overview

Mission / Ins	Mission / Instrument News	
30-Dec-202	None	
31-Dec-202	None	
01-Jan-2022	Nothing planned	











SAR
SARIn

# 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 binary product file (.DBL).

0

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any inc	consistencies and/or errors raised by the ground-segment processing chain.
_1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1E DSARIn chains. A modification is required in the next release.	B IOPR and IOPN products beca	ause the I1b_processing_quality_hr field is not correctly configured in the OSAR and
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also	to check the validity of Auxiliary Data Files is correct.
Dynamic Atmospheric Correction: The DAC is missing in all products becau	ise the auxiliary files required ar	e not available in time for processing. This known and expected behaviour.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indic	ates 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 measurem	nent record. The bit value of this	flag indicates any problems when set.
CryoSat L1B data includes a measurement confidence flag for each measurem   Attitude Correction Missing: This flag is currently set in error for NOPR pro		
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors:		
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors: 0 4.6 L1B Waveform Group Data Check	oducts due to a configuration iss	ue. This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors:     0  4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record	oducts due to a configuration iss	ue. This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors:     0  4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record     Loss of Echo Flag: This flag is currently set for products over land, but this	oducts due to a configuration iss	ue. This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors:     0  4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record	oducts due to a configuration iss	ue. This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors:     0      4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record     Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors:     14	oducts due to a configuration iss	ue. This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for NOPR pro- Number of products with errors: 0  A.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 14  Product	oducts due to a configuration iss d. The bit value of this flag indica is to be expected.	ue. This is being investigated and will be updated in the next SW update.
Attitude Correction Missing: This flag is currently set in error for NOPR provumber of products with errors:  0 4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20211231T072613_20211231T072705_C001	ducts due to a configuration iss d. The bit value of this flag indica is to be expected.	ue. This is being investigated and will be updated in the next SW update.  Ites any problems when set.  Description
Attitude Correction Missing: This flag is currently set in error for NOPR pro Number of products with errors:     0  4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record     Loss of Echo Flag: This flag is currently set for products over land, but this	ducts due to a configuration iss d. The bit value of this flag indica is to be expected. Test Failed Loss of Echo	ue. This is being investigated and will be updated in the next SW update.  ttes any problems when set.  Description The tracking echo is missing for one or more records
Attitude Correction Missing: This flag is currently set in error for NOPR provumber of products with errors:  0  4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 14  Product CS_OFFL_SIR_NOPM1B_20211231T072613_20211231T072705_C001 CS_OFFL_SIR_NOPM1B_20211231T073942_20211231T081334_C001	ducts due to a configuration iss d. The bit value of this flag indica is to be expected. Test Failed Loss of Echo Loss of Echo	ue. This is being investigated and will be updated in the next SW update.  Ites any problems when set.  Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records

# 5.1 L2 Product Format Check

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

Number of products with errors:

## 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.

Loss of Echo

5. NOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

The tracking echo is missing for one or more records

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.

CS\_OFFL\_SIR\_NOPN1B\_20211231T041440\_20211231T041926\_C001

CS\_OFFL\_SIR\_NOPN1B\_20211231T104407\_20211231T104649\_C001

CS\_OFFL\_SIR\_NOPN1B\_20211231T122621\_20211231T122722\_C001

CS\_OFFL\_SIR\_NOPN1B\_20211231T140042\_20211231T140338\_C001

CS\_OFFL\_SIR\_NOPR1B\_20211231T104817\_20211231T105553\_C001

CS\_OFFL\_SIR\_NOPR1B\_20211231T114402\_20211231T115025\_C001

CS\_OFFL\_SIR\_NOPR1B\_20211231T173037\_20211231T173123\_C001

CS OFFL SIR NOPR1B 20211231T190848 20211231T191011 C001

CS\_OFFL\_SIR\_NOPR1B\_20211231T230309\_20211231T231008\_C001

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 Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20211231T000042_20211231T000317_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_20211231T005552_20211231T005711_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_20211231T013551_20211231T014157_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_20211231T023527_20211231T023735_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_20211231T031806_20211231T031941_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_20211231T032835_20211231T033036_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_20211231T041440_20211231T041926_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_20211231T050624_20211231T050853_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_20211231T063722_20211231T064114_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_20211231T072749_20211231T072846_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_20211231T081707_20211231T082021_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_20211231T082536_20211231T082648_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_20211231T095432_20211231T095855_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_20211231T100439_20211231T100559_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_20211231T104233_20211231T104325_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_20211231T104407_20211231T104649_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_20211231T114214_20211231T114402_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_20211231T122621_20211231T122722_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_20211231T132021_20211231T132246_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_20211231T145026_20211231T145244_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_20211231T145924_20211231T150348_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_20211231T154059_20211231T154451_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_20211231T163045_20211231T163317_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_20211231T164040_20211231T164223_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_20211231T190824_20211231T190848_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_20211231T194948_20211231T195106_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_20211231T195637_20211231T195955_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_20211231T204751_20211231T204840_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_20211231T212910_20211231T213025_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_20211231T213535_20211231T213848_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_20211231T231008_20211231T231150_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_20211231T054522_20211231T0555513_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_20211231T071752_20211231T071929_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_20211231T072847_20211231T073635_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_20211231T090532_20211231T091904_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_20211231T104817_20211231T105553_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_20211231T122722_20211231T123252_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_20211231T135622_20211231T135755_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_20211231T140628_20211231T141318_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_20211231T154451_20211231T155003_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_20211231T155037_20211231T155203_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_20211231T172235_20211231T173023_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_20211231T190055_20211231T190824_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_20211231T191735_20211231T191931_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. 0

Number of products with errors:

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20211231T000317_20211231T000511_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_20211231T000734_20211231T001002_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_20211231T001208_20211231T001636_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_20211231T001728_20211231T002838_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_20211231T002853_20211231T003910_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_20211231T004436_20211231T004507_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_20211231T010233_20211231T011817_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_20211231T012709_20211231T013551_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_20211231T014158_20211231T014429_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_20211231T014453_20211231T014919_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_20211231T015140_20211231T020605_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_20211231T020744_20211231T021216_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_20211231T024434_20211231T025144_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_20211231T025307_20211231T031648_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.
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CS_OFFL_SIR_NOPM_2_20211231T031941_20211231T032834_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_20211231T033054_20211231T035436_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_20211231T042944_20211231T045524_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_20211231T045912_20211231T050052_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_20211231T050159_20211231T050624_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_20211231T051009_20211231T053446_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_20211231T060334_20211231T060620_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_20211231T060651_20211231T063345_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_20211231T064114_20211231T064704_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_20211231T064943_20211231T070707_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_20211231T072613_20211231T072705_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_20211231T073942_20211231T081334_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_20211231T082021_20211231T082536_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_20211231T083003_20211231T083020_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_20211231T084222_20211231T084403_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_20211231T090253_20211231T090532_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_20211231T091904_20211231T092826_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_20211231T093112_20211231T095246_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_20211231T100030_20211231T100439_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_20211231T100920_20211231T101947_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_20211231T102135_20211231T102853_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_20211231T102948_20211231T103354_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_20211231T105637_20211231T105643_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_20211231T105922_20211231T105936_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_20211231T105939_20211231T110356_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_20211231T110535_20211231T113203_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_20211231T113354_20211231T113922_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_20211231T113942_20211231T114214_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_20211231T115026_20211231T120256_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_20211231T120324_20211231T122044_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_20211231T124258_20211231T125348_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_20211231T125551_20211231T131102_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_20211231T131322_20211231T131820_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_20211231T132728_20211231T133829_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_20211231T134423_20211231T135622_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_20211231T143516_20211231T145011_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_20211231T145244_20211231T145734_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_20211231T150426_20211231T152743_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_20211231T152745_20211231T152747_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_20211231T152752_20211231T153818_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_20211231T160539_20211231T162623_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_20211231T162711_20211231T162922_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH 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_20211231T163318_20211231T163650_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_20211231T164338_20211231T171127_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH 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_20211231T174353_20211231T180828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH 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_20211231T181107_20211231T181605_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_20211231T181612_20211231T181940_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_20211231T182418_20211231T185743_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH 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_20211231T195106_20211231T195637_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_20211231T200318_20211231T203634_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_20211231T204934_20211231T205058_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_20211231T210859_20211231T212535_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_20211231T213026_20211231T213534_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20211231T214154_20211231T221541_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_NOPM_2_20211231T224014_20211231T224453_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_20211231T224530_20211231T230309_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_20211231T231244_20211231T231439_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_20211231T232153_20211231T233515_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_20211231T233636_20211231T233901_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_20211231T234343_20211231T235109_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_20211231T235111_20211231T235232_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_20211231T064704_20211231T064829_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_20211231T173840_20211231T173946_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_20211231T195637_20211231T195955_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_20211231T210657_20211231T210859_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_20211231T003910_20211231T004055_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_20211231T022254_20211231T022319_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_20211231T031648_20211231T031806_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_20211231T045524_20211231T045743_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_20211231T103354_20211231T104043_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_20211231T162701_20211231T162711_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (20Hz PLRM)

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Number of products with errors:

Product	Test Failed	Description
		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	<b>o i</b>	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.
	<b>o i</b>	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

Displant         Description         Description <thdescription< th=""> <thdescription< th=""> <t< th=""><th></th><th></th><th></th></t<></thdescription<></thdescription<>			
Cold PL, Sin, NUM, 2, 202112311020000, 20211231102000, 20211231102000, 20211231102000,	CS_OFFL_SIR_NOPN_2_20211231T012330_20211231T012436_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CB_DEL_SBL_VCPL_2_20211231102202_20211231102202_00112110218_0001         Image Research Coulding VERGENCE           CB_DEL_SBL_VCPL_2_20211231102202_20211231102202_0011221102205_0001         Cools Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20211231102202_20211231102205_0001         Cools Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20211231102205_0001         Cools Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20211231102205_0001         COOLS Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20211231102201_20211221102500_0001         COOLS Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20211231102201_20211221102500_0001         COOLS Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20211231102500_0001         COOLS Almeter Range SLAMP, VERGENCE           CB_DEL_SBL_VCPL_2_20	CS_OFFL_SIR_NOPN_2_20211231T013551_20211231T014157_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS, OFFL_SIR, NOPKL2, 20211231102352, 20211231102354, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023512, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023514, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023142, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023142, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 202112311023142, 0001 DCG Almeter Renge Dualty PIRM. CS, OFFL_SIR, NOPKL2, 20211231102342, 0001 DCG Almeter Renge Dualty PIRM. DG DCG Almeter Renge Dual	CS_OFFL_SIR_NOPN_2_20211231T023033_20211231T023112_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.
Ord AFR, SR, NOPN 2, 20211231102514, 20211231102507, 001     OCOG Backsatter Quality     Nove reacts.     The OCOG Range and Backsatter Quality FIBM,     De OCOG Range and Backsatter Quality FIBM,     The OCOG Range and Backsat	CS_OFFL_SIR_NOPN_2_20211231T023527_20211231T023735_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_20211231T082510_20211231T085510_0001         OCOO Backsocater Outly         The OCOO Range and Backsocater Outly Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T082510_20211231T082540_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T082142_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T082142_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T082142_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T072308_20211231T072428_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T07248_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T07248_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T072548_02011231T072548_0001         OCOO Attimeter Range Outling PLRM. The OCOO Range and Backsocater Outling Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T072548_02011231T072548_0001         OCOO Attimeter Range O	CS_OFFL_SIR_NOPN_2_20211231T024312_20211231T024434_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Dis_DFPL_SIR_NOPN_2_20211231T04203_0211231T04204_0001         0C00 Backscatter Duality         more records.           CS_OFFL_SIR_NOPN_2_20211231T04203_0211231T042144_0001         0C00 A limiter Range Duality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T04204_0211231T064284_0001         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T064704_20211231T07448_0001         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T072749_02211231T07248_0001         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T072749_02211231T07249_0021         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T07249_02211231T07249_0021         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T073842_0021         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_20211231T073842_0211231T073842_0021         0C00 A limiter Range Quality PLRM.         The OC00 Range and Backscatter Quality Flags have been set for o more records. <td>CS_OFFL_SIR_NOPN_2_20211231T025144_20211231T025307_C001</td> <td></td> <td>The OCOG Range and Backscatter Quality Flags have been set for one or more records.</td>	CS_OFFL_SIR_NOPN_2_20211231T025144_20211231T025307_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SR_NOPK_2_20211231T050052_20211231T050158_C001         OCOG Backscatter Quality         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T050052_20211231T050158_C001         OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T072366_20211231T072428_C001         OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T072366_20211231T072486_C001         OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T07248_0C001         OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T07248_0C001         OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T072848_0C001         OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T08256_20211231T08256_0C01         OCOG Alimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T08256_0C01         OCOG Alimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SR_NOPK_2_20211231T082586_0C01         OCOG Alimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for o more records.	CS_OFFL_SIR_NOPN_2_20211231T035510_20211231T035816_C001	<b>a</b>	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Des_OPE_SIR_NOPN_2_202112311000052_02112311000056_0001         OCOG Backscatter Quality FLRM, CCS_OFFL_SIR_NOPN_2_202112311072368_0202112311072486_0001         OCCGA Itimeter Range Quality PLRM, CCS_OFFL_SIR_NOPN_2_202112311072368_0202112311072486_0001         OCCGA Itimeter Range Quality PLRM, CCS_OFFL_SIR_NOPN_2_202112311072749_202112311072486_0001         OCCGA Itimeter Range Quality PLRM, CCS_OFFL_SIR_NOPN_2_202112311072868_0001         The OCCIA Range and Backscatter Quality Flags have been set for omore records.           CS_OFFL_SIR_NOPN_2_202112311072848_0001         OCCCG Attimeter Range Quality PLRM, CCCG Attimeter Range Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for omor records.           CS_OFFL_SIR_NOPN_2_2021123111065482_021123111065482_02011         OCCG Attimeter Range Quality PLRM, CCCGG Attimeter Range Quality PLRM, CCCGG Attimeter Range Abscatter Quali	CS_OFFL_SIR_NOPN_2_20211231T042023_20211231T042144_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_202112311004/04_202112311004520_0001         OCOG Backscatter Quality PLRM.         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311072306_202112311072428_0001         OCOG Altimeter Range Quality PLRM.         The Ocog Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311072308_202112311073941_0001         OCOG Altimeter Range Quality PLRM.         The Ocog Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311073943_002112311073941_0001         OCOG Altimeter Range Quality PLRM.         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311073943_002112311073941_0001         OCOG Altimeter Range Quality PLRM.         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311086483_0001         OCOG Altimeter Range Quality PLRM.         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311086548_0001         OCOG Altimeter Range Quality PLRM.         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311086548_0001         OCOG Altimeter Range Quality PLRM.         The OCOG Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311086548_20211231108559_0001         Altimeter Range Quality PLRM.         The OCOG Range and Backscatter Quali	CS_OFFL_SIR_NOPN_2_20211231T050052_20211231T050158_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
DS_OFFL_SIR_NOPN_2_2021123110/2306_021123110/2426_0001         OCC06 Backscatter Quality         more records.           GS_OFFL_SIR_NOPN_2_202112311072749_202112311072846_0001         OCC06 Backscatter Quality PLRM, OCC0 Altimeter Range and Backscatter Quality PLRM, OCC0 Altimeter Range and Backscatter Quality PLRM, OCC0 Backscatter Quality PLRM, OCC0         The OCC06 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311073823_202112311082648_C001         OCC06 Altimeter Range Quality PLRM, OCC06 Backscatter Quality         The OCC06 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311082648_C001         OCC06 Altimeter Range Quality PLRM, OCC06 Backscatter Quality         The OCC06 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311086643_C001         OCC06 Altimeter Range Quality PLRM, OCC06 Backscatter Quality         The OCC06 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311085748_202112311085840_C001         OCC06 Altimeter Range Quality PLRM, OCC06 Backscatter Quality         The OCC06 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311095432_202112311095855_C001         OCC06 Altimeter Range Quality PLRM, OCC06 Backscatter Quality         The OCC06 Range and Backscatter Quality Flags have been set for o more records.           CS_OFFL_SIR_NOPN_2_202112311104499_202112311104649_C001         OCC06 Altimeter Range Quality PLRM, OCC06 Backscatter Quality         T	CS_OFFL_SIR_NOPN_2_20211231T064704_20211231T064829_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211231T072749_20211231T072846_C001       and Backscatter Quality PLRM, COURT       Interfer Range and Backscatter Quality PLRM, COURT         CS_OFFL_SIR_NOPN_2_20211231T073823_20211231T073941_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have then set for omore records.         CS_OFFL_SIR_NOPN_2_20211231T082536_20211231T084643_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have then set for omore records.         CS_OFFL_SIR_NOPN_2_20211231T084638_20211231T084643_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have then set for omore records.         CS_OFFL_SIR_NOPN_2_20211231T085642_20211231T08565_C001       OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have the ocog Range and Backscatter Qu	CS_OFFL_SIR_NOPN_2_20211231T072306_20211231T072428_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_2021123110/363_2021123110/3643_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_202112311082546_C001       OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_2021123110854638_2021123110864643_C001       OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311085748_202112311085840_C001       OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311085748_202112311085585_C001       OCOG Altimeter Range, SHA, SWH and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311106439_202112311100559_C001       OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311104407_202112311104649_C001       Ocean Altimeter Range Quality PLRM. OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311104407_202112311104409_C001       Ocean Altimeter Range Quality PLRM. OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311104407_20211231	CS_OFFL_SIR_NOPN_2_20211231T072749_20211231T072846_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_20211231108236_202112311082646_001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_202112311084638_202112311086643_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311085748_202112311085640_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311095432_202112311095855_C001       Ocoaen Altimeter Range, SSHA, SWH and Backscatter Quality PLRM       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311100439_202112311100559_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311100439_202112311100559_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311104407_202112311104649_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311114214_202112311114402_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_202112311114042_2021123	CS_OFFL_SIR_NOPN_2_20211231T073823_20211231T073941_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211231T084035_00211231T084043_0001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_20211231T085748_20211231T085840_C001       OCOG Backscatter Quality       PLRM,         CS_OFFL_SIR_NOPN_2_20211231T095432_20211231T095855_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPN_2_20211231T095432_20211231T095855_C001       Ocean Altimeter Range Quality PLRM, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPN_2_20211231T100439_20211231T100559_C001       OCOG Altimeter Range Quality PLRM, OCOG       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_C001       Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114214_20211231T114402_C001       OCCG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114218_20211231T114403_C001       OCCG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114218_20211231T114403_C001       OCCG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quali	CS_OFFL_SIR_NOPN_2_20211231T082536_20211231T082648_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_202112311065/46_20211231106540_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_202112311095432_202112311095655_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have te set for one or more records.         CS_OFFL_SIR_NOPN_2_20211231T100439_20211231T100559_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCCG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, DCGG Backscatter Quality PLRM,       The OCCG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114407_20211231T114402_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality PLRM       The OCCG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114402_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality       The OCCG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T134423_C001       OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality       The OCCG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_C001	CS_OFFL_SIR_NOPN_2_20211231T084638_20211231T084643_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211231T095432_20211231T095855_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality       and Backscatter Quality       and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T100439_20211231T100559_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114214_20211231T114402_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114128_20211231T114403_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for o more records.	CS_OFFL_SIR_NOPN_2_20211231T085748_20211231T085840_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211231T100439_20211231T100539_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPN_2_20211231T114214_20211231T114402_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T1144128_20211231T114402_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T134128_20211231T134423_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T134128_20211231T134423_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, occog at the OCOG Altimeter Range and Backscatter Quality Flags have been set for o more records.	CS_OFFL_SIR_NOPN_2_20211231T095432_20211231T095855_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_20211231T104407_20211231T104649_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T114214_20211231T114402_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T134128_20211231T134423_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for o more records.         CS_OFFL_SIR_NOPN_2_20211231T134128_20211231T140338_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for o more records.	CS_OFFL_SIR_NOPN_2_20211231T100439_20211231T100559_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211231T114214_20211231T114402_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_20211231T134128_20211231T134423_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for or more records.         CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or and backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or and the OCOG Altimeter Range and Backscatter Quality Flags have been set for or and the ocean Altimeter Range and Backscatter Quality Flags have been set for or and the ocean Altimeter Range and Backscatter Quality Flags have been set for or and the ocean Altimeter Range and Backscatter Quality Flags have been set for or and the ocean Altimeter Range and Backscatter Quality Flags have been set for or and the ocean Altimeter Range and Backscatter Quality Flags have been set for or or more records.	CS_OFFL_SIR_NOPN_2_20211231T104407_20211231T104649_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_20211231T134128_20211231T134423_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag have backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flag have backscatter Quality	CS_OFFL_SIR_NOPN_2_20211231T114214_20211231T114402_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plans have to and Backscatter Quality PLRM, OCOG	CS_OFFL_SIR_NOPN_2_20211231T134128_20211231T134423_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_NOPN_2_20211231T140042_20211231T140338_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_20211231T145026_20211231T145244_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_20211231T145924_20211231T150348_C001 Altimeter Range and Backscatter Quality PLRM. and the OCOG Altimeter Range and Backscatter Quality PLRM. and the OCOG Altimeter Range and Backscatter Quality PLRM.	CS_OFFL_SIR_NOPN_2_20211231T145924_20211231T150348_C001	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_20211231T154059_20211231T154451_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_20211231T160204_20211231T160505_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COCOG	CS_OFFL_SIR_NOPN_2_20211231T160204_20211231T160505_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPN_2_20211231T163045_20211231T163317_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_20211231T180938_20211231T181106_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_20211231T185744_20211231T185902_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_20211231T192959_20211231T193333_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_20211231T194948_20211231T195106_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_20211231T195637_20211231T195955_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_20211231T212910_20211231T213025_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_20211231T011817_20211231T012030_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_20211231T020605_20211231T020744_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_20211231T021217_20211231T021453_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_20211231T022254_20211231T022319_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_20211231T022919_20211231T023033_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_20211231T024105_20211231T024218_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_20211231T031648_20211231T031806_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_20211231T054522_20211231T055513_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_20211231T071504_20211231T071641_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_20211231T072847_20211231T073635_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_20211231T073738_20211231T073810_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_20211231T083558_20211231T084220_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_20211231T090532_20211231T091904_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_20211231T104817_20211231T105553_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_20211231T105654_20211231T105718_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_20211231T114402_20211231T115025_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_20211231T120256_20211231T120324_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_20211231T122722_20211231T123252_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_20211231T123825_20211231T123953_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_20211231T132246_20211231T132541_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_20211231T135913_20211231T140041_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_20211231T140628_20211231T141318_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_20211231T142701_20211231T143516_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_20211231T150349_20211231T150425_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_20211231T155037_20211231T155203_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_20211231T172235_20211231T173023_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_20211231T190055_20211231T190824_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_20211231T190848_20211231T191011_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_20211231T192041_20211231T192220_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_20211231T193959_20211231T194254_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_20211231T195955_20211231T200318_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_20211231T205241_20211231T205525_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_20211231T212536_20211231T212910_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_20211231T213849_20211231T214154_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_20211231T221541_20211231T221642_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_20211231T230309_20211231T231008_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_20211231T235815_20211231T235939_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.				
L2 Quality Flags (1 Hz & 1Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products,	which are summarised below.					
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.						
Number of products with errors: 183						
5.7 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20Hz)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meas	urement record. The bit value of this flag indic	ates any problems when set.				
Ocean Retracking Quality Flag: This flag is currently set for products falling a	t ocean/ land boundaries, but this is expected					

Number of products with errors:

## L2 Retracking Flags (20Hz, PLRM)

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

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

54

131

Number of products with errors:

# 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	217	217	3	214	0
SIR_NOPR1B	122	122	0	122	0
SIR_NOPN1B	105	105	2	103	0

SIR_NOPM_2	217	217	161	56	0
SIR_NOPR_2	122	122	38	71	13
SIR_NOPN_2	105	105	45	60	0

## 7.1 QCC Errors

Number of QCC	reports with er	rors:	18								
					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2	13	2	13	13	2	13					

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

# 7.2 QCC Warnings

## Number of QCC reports with warnings

			Total nun	ber of occurrences of ea	ach warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNO
SIR_NOPM1B	214	0	0	0	0	0	0
SIR_NOPM_2	0	0	39	45	0	42	0
SIR_NOPN1B	101	0	0	0	0	0	0
SIR_NOPN_2	0	0	7	30	3	19	21
SIR_NOPR1B	118	0	0	0	0	0	0
SIR_NOPR_2	0	13	30	43	0	27	19
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	33	0	36	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	11	0	0	0	20	0	32
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	7	1	0	45	0	52	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	29	0	0	6	25	0	3
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	26	14	34	51	31
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	41	0	2	52	39	10

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	3	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	44	0
SIR_NOPN_2	25	29	12	0	0	0	0
SIR_NOPR1B	0	0	0	0	0	122	13
SIR_NOPR_2	30	48	1	1	15	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					
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter signa 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	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSINN	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 = locean					
	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = locean					
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = locean					
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)					
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 w	ith missing QCC reports: 0					