

QA4EO Daily Report for NOP data:

1. Overview

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

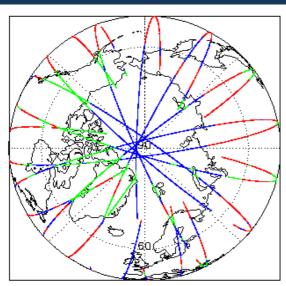
We would love to hear from you!

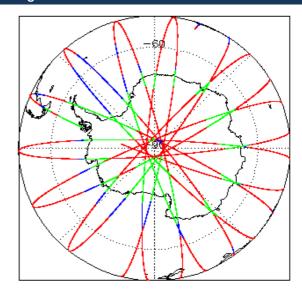
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

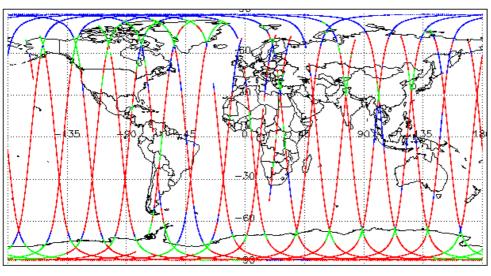
| Check | L1 & L2 |
|---|------------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | Nominal |
| Auxiliary Data File Usage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

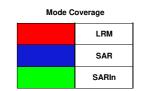
| I | Mission / Instrument News | | |
|---|---------------------------|-----------------|--|
| | 10-Feb-2023 | None | |
| | 11-Feb-2023 | None | |
| | 12-Feb-2023 | Nothing planned | |

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

4.2 L1B Product Header Analysis

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

> L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

2

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

| Product | Test Failed | Description |
|---|---------------------|--|
| CS_OFFL_SIR_NOPM1B_20230211T035812_20230211T041125_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |
| CS_OFFL_SIR_NOPM1B_20230211T140435_20230211T140953_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

| Product | Test Failed | Description |
|---|--------------|--|
| | | |
| CS_OFFL_SIR_NOPM1B_20230211T215901_20230211T220515_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T024257_20230211T024817_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T033356_20230211T033737_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T055028_20230211T055130_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T082554_20230211T082612_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T092312_20230211T092605_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T182042_20230211T182313_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230211T213213_20230211T213829_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T015817_20230211T020830_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T041125_20230211T041733_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T044430_20230211T044632_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T052024_20230211T052312_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T064601_20230211T065213_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T082612_20230211T082711_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T174632_20230211T174931_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230211T181540_20230211T181802_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

42

| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_NOPM_2_20230211T232736_20230211T232913_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_20230211T005717_20230211T005843_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_20230211T010354_20230211T010658_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_20230211T023745_20230211T024043_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_20230211T024257_20230211T024817_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_20230211T032725_20230211T032821_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_20230211T033356_20230211T033737_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_20230211T041734_20230211T042008_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_20230211T051251_20230211T051404_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_20230211T051541_20230211T051808_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_20230211T055028_20230211T055130_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_20230211T065214_20230211T065436_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_20230211T073452_20230211T073644_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_20230211T083157_20230211T083633_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_20230211T091431_20230211T091609_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_20230211T105425_20230211T105808_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_20230211T123357_20230211T123714_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_20230211T124226_20230211T124350_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_20230211T132451_20230211T132545_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_20230211T142135_20230211T142242_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_20230211T150354_20230211T150510_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) | There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records |
| CS_OFFL_SIR_NOPN_2_20230211T164247_20230211T164424_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_20230211T165716_20230211T170123_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_20230211T173707_20230211T174321_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_20230211T181911_20230211T182042_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_20230211T182042_20230211T182313_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_20230211T191630_20230211T191949_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_20230211T195746_20230211T200136_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_20230211T213213_20230211T213829_C001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records |

| CS_OFFL_SIR_NOPN_2_20230211T223635_20230211T223753_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_20230211T233510_20230211T233545_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_20230211T064601_20230211T065213_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_20230211T082739_20230211T083157_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_20230211T100148_20230211T101335_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_20230211T114534_20230211T115321_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_20230211T132545_20230211T133603_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_20230211T150510_20230211T151232_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_20230211T164424_20230211T164944_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_20230211T182313_20230211T183023_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_20230211T213829_20230211T214728_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_20230211T232913_20230211T233123_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_20230211T233545_20230211T233635_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

CS_OFFL_SIR_NOPM_2_20230211T140435_20230211T140953_C001

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

Number of products with errors:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_NOPM_2_20230211T035812_20230211T041125_C001
 Power scaling error
 There is an error in the scaling of the L2 waveform for one or more records

There is an error in the scaling of the L2 waveform for one or more records

Power scaling error

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

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Number of products with errors:

| Product | Test Failed | Description |
|---|-------------------------------|---|
| CS_OFFL_SIR_NOPM_2_20230210T233018_20230211T000404_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T001800_20230211T001849_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T002941_20230211T003058_C001 | | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T003242_20230211T005717_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T005843_20230211T010353_C001 | J , | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T010911_20230211T014416_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T021351_20230211T023239_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T023410_20230211T023617_C001 | and Backscatter Quality, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |

| | I | 1 |
|---|--|---|
| CS_OFFL_SIR_NOPM_2_20230211T024948_20230211T031945_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_20230211T033852_20230211T035733_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_20230211T035812_20230211T041125_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_20230211T042336_20230211T042709_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_20230211T042844_20230211T044430_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_20230211T044632_20230211T045555_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_20230211T050154_20230211T050618_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_20230211T051404_20230211T051540_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_20230211T051904_20230211T052024_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_20230211T052312_20230211T053514_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_20230211T055130_20230211T055236_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_20230211T055830_20230211T060132_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_20230211T060138_20230211T060611_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_20230211T060806_20230211T062301_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_20230211T070132_20230211T070843_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_20230211T071006_20230211T073419_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_20230211T073644_20230211T074509_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_20230211T074720_20230211T081331_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_20230211T084637_20230211T091308_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_20230211T091856_20230211T092312_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_20230211T092605_20230211T095235_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_20230211T095411_20230211T095620_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_20230211T101921_20230211T105214_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_20230211T105809_20230211T110351_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_20230211T110510_20230211T111133_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_20230211T111625_20230211T112045_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| | | |

| CONTILIBLIADMIL 2 2020211114050 2020211114050 CONTILIBLIADMIL 2020211110210 CONTILIBLIADMIL 2020 | CS_OFFL_SIR_NOPM_2_20230211T112549_20230211T113205_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 |
|--|---|--|---|
| Sec. OFFL. SRI. NOTH. 2. 20200111191919. 20200211119209. CORD Sci. OFFL. SRI. NOTH. 2. 2020011119209. CORD CS. OFFL. SRI. NOTH. 2. 2020011119209. 20201 CS. OFFL. SRI. NOTH. 2. 2020011119209. 202011119209. 20201 CS. OFFL. SRI. NOTH. 2. 2020011119209. 202011119209. 202011119209. 202011119209. 202011119209. 202011119209. 202011119209. 202011119209. 20201119209. 202011119209. 20201111920 | CS_OFFL_SIR_NOPM_2_20230211T114253_20230211T114356_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Bescelar (Joshy C. 2004). Self-Control (1994). Self-Control (1994) and self-control (1994). Self-Control (1994) and self-contr | CS_OFFL_SIR_NOPM_2_20230211T115715_20230211T123153_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| SCOPPLISH_NOME_2_2020211T19001_2020211T19005_0001 GROWN Program of Charlestoner Regions SHRA, 5994 and Resource Program SHRA, | CS_OFFL_SIR_NOPM_2_20230211T123714_20230211T124226_C001 | | |
| Reference Flags, CODA Allement Range and Resocutation Quality Range have been self control are not as received records. CS_OFFL_SRI_NOPM_2_2020011T140F05_2020021T140F05_0001 CS_OFFL_SRI_NOPM_2_2020021T140F05_2020021T140F05_0001 CS_OFFL_SRI_NOPM_2_2020021T140F05_2020021T140F05_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_2020021T15003_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_2020021T15003_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_2020021T15003_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_2020021T15003_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_2020021T15003_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_2020021T15003_0001 CS_OFFL_SRI_NOPM_2_2020021T15003_00001 CS_OFFL_SRI_NOPM_2_2020021T15003_2000021T15003_0001 CS_OFFL_SRI_NOPM_2_2020001T15003_2000021T15003_0001 CS_OFFL_SRI_NOPM_2_2020001T15003_000001 CS_OFFL_SRI_NOPM_2_2020001T15003_000001 CS_OFFL_SRI_NOPM_2_2020001T15000_000001 CS_OFFL_SRI_NOPM_2_2020001T15000_0000001 CS_OFFL_SRI_NOPM_2_2020001T15000_000001 CS_OFFL_SRI_NOPM_2_2020001T15000_000001 CS_OFFL_SRI_NOPM_2_2020001T150000_0000000000000000000000000000 | CS_OFFL_SIR_NOPM_2_20230211T124408_20230211T130358_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220211T142731_2020211T142185_001 CS_OFFL_SIR_NOPM_2_20220211T142731_202021T1142185_001 CS_OFFL_SIR_NOPM_2_2022021T1742231_202021T174231_20201 CS_OFFL_SIR_NOPM_2_2022021T1742231_202021T174231_20201 CS_OFFL_SIR_NOPM_2_2022021T1742231_202021T174231_20201 CS_OFFL_SIR_NOPM_2_2022021T1742231_202022T17150054_001 CS_OFFL_SIR_NOPM_2_2022021T1750054_001 CS_OFFL_SIR_NOPM_2_2022021T1750064_001 CS_OFFL_SIR_NOPM_2_2022021T17500 | CS_OFFL_SIR_NOPM_2_20230211T133603_20230211T140433_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CB_OFFL_SIR_NOPM_2_20220211T160582_0220211T163500_C001 CB_OFFL_SIR_NOPM_2_20220211T160582_0220211T163500_C001 CB_OFFL_SIR_NOPM_2_20220211T160582_022021T155300_C001 CB_OFFL_SIR_NOPM_2_2022021T150582_022021T155300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_022021T155300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_022021T175300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_022021T175300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_022021T175300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_022021T175300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_022021T175300_C001 CB_OFFL_SIR_NOPM_2_2022021T1750582_02001 CB_OFFL_SIR_NOPM_2_2022021T1750582_02001 CB_OFFL | CS_OFFL_SIR_NOPM_2_20230211T140435_20230211T140953_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| ord Backscatter Coulty, COCS Altimeter Range and Backscatter Coulty Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_82820211T150264_CO01 CS_OFFL_SIR_NOPM_2_82820211T150264_2O01 CS_OFFL_SIR_NOPM_2_82820211T150264_2O01 CS_OFFL_SIR_NOPM_2_82820211T150264_2O01 CS_OFFL_SIR_NOPM_2_8282021T150264_2O01 CS_OFFL_SIR_NOPM_2_8282021T150262_2O01 CS_OFFL_SIR_NOPM_2_8282021T150262_2O0201T150262_2O01 CS_OFFL_SIR_NOPM_2_8282021T150262_2O01 CS_OFFL_SIR_NOPM_2_8282021T150262_2 | CS_OFFL_SIR_NOPM_2_20230211T141721_20230211T142135_C001 | | |
| Backscatter Oualty Groven or more records To come or more records The COGO Altimeter Range and Backscatter Quality Flags have been set for one or more records To come or more records To come or more records The COGO Altimeter Range and Backscatter Quality Flags have been set for one or more records To come or more records To come or more records The COGO Altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been set for one or more records To come altimeter Range and Backscatter Quality Flags have been s | CS_OFFL_SIR_NOPM_2_20230211T142331_20230211T145104_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Cuality Flags have been set from our owner encodes CS_OFFL_SIR_NOPM_2_20230211T153192_20220211T153396_CO01 CS_OFFL_SIR_NOPM_2_20230211T153398_2023021T153396_CO01 CS_OFFL_SIR_NOPM_2_2023021T153398_2023021T153396_CO01 CS_OFFL_SIR_NOPM_2_2023021T153398_2023021T153396_CO01 CS_OFFL_SIR_NOPM_2_2023021T153398_2023021T153399_CO01 CS_OFFL_SIR_NOPM_2_2023021T153398_2023021T154086_CO01 CS_OFFL_SIR_NOPM_2_2023021T154092_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154092_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154092_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154093_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154093_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154093_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154093_2023021T154096_CO01 CS_OFFL_SIR_NOPM_2_2023021T154093_2023021T154094_CO01 CCCCCCARImeter Range Quality, CO02 CCCCARImeter Range Cuality, CO02 CCCCARIMETER Range Cuality, CO02 CCCCARIMETER Range Cuality, CO02 CCCCARIMETER Range Cuality, CO02 CCCCCARIMETER Range Cuality, CO02 CCCCARIMETER Range Cuality, CO02 CCCCCARIMETER Range Cuality, CO02 Alternoter Range and Backscatter Cuality Flags have been set for one or more records CCCCCARIMETER Range Cuality, CO02 CCCCCARIMETER Range Cuality, CO02 CCCCCARIMETER Range Cuality, CO02 | CS_OFFL_SIR_NOPM_2_20230211T150233_20230211T150354_C001 | | |
| CS_OFFL_SIR_NOPM_2_20230211T153382_2023021T153392_C001 CS_OFFL_SIR_NOPM_2_2023021T153392_2001 CS_OFFL_SIR_NOPM_2_2023021T153392_2001 CS_OFFL_SIR_NOPM_2_2023021T153392_2001 CS_OFFL_SIR_NOPM_2_2023021T153392_2001 CS_OFFL_SIR_NOPM_2_2023021T153392_2001 CS_OFFL_SIR_NOPM_2_2023021T153392_2001 CS_OFFL_SIR_NOPM_2_2023021T153939_20001 CS_OFFL_SIR_NOPM_2_2003021T155083_2000021T155041_C001 CS_OFFL_SIR_NOPM_2_2000021T155083_2000021T155041_C001 CS_OFFL_SIR_NOPM_2_2000021T155083_2000021T155041_C001 CS_OFFL_SIR_NOPM_2_2000021T150802_2000021T155041_C001 CS_OFFL_SIR_NOPM_2_2000001T150802_2000001T150802_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150803_2000001T150804_C001 CS_OFFL_SIR_NOPM_2_2000001T150804_C0000000000000000000000000000000000 | CS_OFFL_SIR_NOPM_2_20230211T151845_20230211T152652_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Backscatter Quality CS_OFFL_SIR_NOPM_2_20230211T153340_20230211T15408_C001 CS_OFFL_SIR_NOPM_2_20230211T153340_2023021T15408_C001 CS_OFFL_SIR_NOPM_2_2023021T154342_2023021T15400_C001 CS_OFFL_SIR_NOPM_2_2023021T154342_2023021T15400_C001 CS_OFFL_SIR_NOPM_2_2023021T154042_2023021T15400_C001 CS_OFFL_SIR_NOPM_2_2023021T155633_2023021T155641_C001 CS_OFFL_SIR_NOPM_2_2023021T155633_2023021T155641_C001 CS_OFFL_SIR_NOPM_2_2023021T156078_2023021T156078 CS_OFFL_SIR_NOPM_2_2023021T160786_2023021T160780_C001 CS_OFFL_SIR_NOPM_2_2023021T160780_C001 CS_OFFL_SIR_NOPM_2_2023021T160780_C001 CS_OFFL_SIR_NOPM_2_2023021T160780_C001 CS_OFFL_SIR_NOPM_2_2023021T1760780_2023021T1760780_C001 CS_OFFL_SIR_NOPM_2_2023021T1760780_C001 CS_OFFL_SIR_NOPM_2_2023021T1760780_C001 CS_OFFL_SIR_NOPM_2_2023021T1760780_C001 CS_OFFL_SIR_NOPM_2_2023021T1760780_C001 CS_OFFL_SIR_NOPM_2_2023021T1760780_C001 CS_OFFL_SIR_NOPM_2_2023021T1770780_C001 CS_OFFL_SIR_NOPM_2_2023021T1770 | CS_OFFL_SIR_NOPM_2_20230211T153132_20230211T153306_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been at the OCOG Altimeter Range, and Backscatter Quality Flags have been at the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230211T155613_20230211T155614_C001 CS_OFFL_SIR_NOPM_2_2023021T155633_2023021T155614_C001 CS_OFFL_SIR_NOPM_2_2023021T156833_2023021T156841_C001 CS_OFFL_SIR_NOPM_2_2023021T166726_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T166726_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T166740_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T166740_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T166740_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T166740_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T166740_2023021T16832_C001 CS_OFFL_SIR_NOPM_2_2023021T168740_2023021T176382_C001 CS_OFFL_SIR_NOPM_2_2023021T1763802_2023021T176382_C001 CS_OFFL_SIR_NOPM_2_2023021T176728_2023021T17626_C001 CS_OFFL_SIR_NOPM_2_2023021T176728_2023021T176382_C001 CS_OFFL_SIR_NOPM_2_2023021T176728_2023021T176382_C001 CS_OFFL_SIR_NOPM_2_2023021T176728_2023021T176382_C001 CS_OFFL_SIR_NOPM_2_2023021T176728_2023021T17682_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T177692_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T177692_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T177692_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T177692_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T177692_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T1778281_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T1778281_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T1778281_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T1778281_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T1778281_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T1778281_C001 CS_OFFL_SIR_NOPM_2_2023021T1772128_2023021T17 | CS_OFFL_SIR_NOPM_2_20230211T153308_20230211T153329_C001 | | |
| and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been and Early Cock Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range a | CS_OFFL_SIR_NOPM_2_20230211T153340_20230211T154208_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Backscatter Quality CS_OFFL_SIR_NOPM_2_20230211T155633_20230211T155841_C001 CS_OFFL_SIR_NOPM_2_20230211T160726_20230211T161832_C001 CS_OFFL_SIR_NOPM_2_20230211T160726_20230211T161832_C001 CS_OFFL_SIR_NOPM_2_20230211T160726_20230211T163020_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163020_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163350_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_2023021T1763350_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_2023021T1763832_C001 CS_OFFL_SIR_NOPM_2_2023021T1763147_2023021T1763832_C001 CS_OFFL_SIR_NOPM_2_2023021T1763602_2023021T1763832_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T1770123_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1770123_2023021T171052_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1717210_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOPM_2_2023021T1772126_2023021T1772100_C001 CS_OFFL_SIR_NOP | CS_OFFL_SIR_NOPM_2_20230211T154342_20230211T154920_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Backscatter Quality CS_OFFL_SIR_NOPM_2_20230211T160726_20230211T161832_C001 CS_OFFL_SIR_NOPM_2_20230211T162140_20230211T163020_C001 CS_OFFL_SIR_NOPM_2_20230211T162140_20230211T163020_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163050_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163050_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_2023021T1763050_C001 CS_OFFL_SIR_NOPM_2_20230211T163002_2023021T1763050_C001 CS_OFFL_SIR_NOPM_2_20230211T163002_2023021T1763050_C001 CS_OFFL_SIR_NOPM_2_2023021T1763002_2023021T1763050_C001 CS_OFFL_SIR_NOPM_2_2023021T1763002_2023021T1763050_C001 CS_OFFL_SIR_NOPM_2_2023021T1763602_2023021T1763050_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17052_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17052_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17052_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17052_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17052_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17052_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17000_C001 CS_OFFL_SIR_NOPM_2_2023021T170210_C001 CS_OFFL_SIR_NOPM_2_2023021T1 | CS_OFFL_SIR_NOPM_2_20230211T155053_20230211T155614_C001 | | |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more reco | CS_OFFL_SIR_NOPM_2_20230211T155633_20230211T155841_C001 | | |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163350_C001 CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163350_C001 CS_OFFL_SIR_NOPM_2_20230211T163602_20230211T163832_C001 CS_OFFL_SIR_NOPM_2_20230211T163602_20230211T163832_C001 CS_OFFL_SIR_NOPM_2_20230211T163602_20230211T163832_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T170122_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T17010_C001 CS_OFFL_SIR_NOPM_2_2023021T1717255_2023021T17010_C001 CS_OFFL_SIR_NOPM_2_2023021T1717255_2023021T17010_C001 CS_OFFL_SIR_NOPM_2_2023021T170123_2023021T17010_C001 CS_OFFL_SIR_NOPM_2_2023021T1702123_2023021T17010_C001 CS_OFFL_SIR_NOPM_2_2023021T1702123_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021T1702123_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021T170213_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021T17001_2001_C001 CS_OFFL_SIR_NOPM_2_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021T17001_2001_C001 CS_OFFL_SIR_NOPM_2_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021T17001_C001 CS_OFFL_SIR_NOPM_2_2023021 | CS_OFFL_SIR_NOPM_2_20230211T160726_20230211T161832_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230211T163602_20230211T163832_C001 CS_OFFL_SIR_NOPM_2_20230211T163602_20230211T163832_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T170122_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T17010_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172010_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172010_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T17211_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T17211_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T1721515_C001 COCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230211T172020_20230211T172015_C001 CCCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPM_2_20230211T162140_20230211T163020_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T170152_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T170152_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T170152_C001 CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T17010_C001 CS_OFFL_SIR_NOPM_2_20230211T171255_20230211T172010_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172010_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172821_C001 CS_OFFL_SIR_NOPM_2_20230211T172821_C001 CS_OFFL_SIR_NOPM_2_20230211T172821 | CS_OFFL_SIR_NOPM_2_20230211T163147_20230211T163350_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T172010_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172010_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172821_C001 CS_OFFL_SIR_NOPM_2_20230211T172821_C001 CS_OFFL_SIR_NOPM_2_2023021T172821_C | CS_OFFL_SIR_NOPM_2_20230211T163602_20230211T163832_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20230211T172155_20230211T172010_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172821_C001 CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172821_C001 Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230211T172020_20230211T1728515_C001 CS_OFFL_SIR_NOPM_2_20230211T172020_20230211T1728515_C001 CS_OFFL_SIR_NOPM_2_20230211T172020_20230211T1728515_C001 CS_OFFL_SIR_NOPM_2_20230211T172020_20230211T1728515_C001 | CS_OFFL_SIR_NOPM_2_20230211T170123_20230211T171052_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172821_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set | CS_OFFL_SIR_NOPM_2_20230211T171255_20230211T172010_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| | CS_OFFL_SIR_NOPM_2_20230211T172126_20230211T172821_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| | CS_OFFL_SIR_NOPM_2_20230211T173020_20230211T173515_C001 | | |
| CS_OFFL_SIR_NOPM_2_20230211T173550_20230211T173707_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_20230211T173550_20230211T173707_C001 | | |

| CS OFFI SID NORM 2 20020014T174221 20020014T174622 C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been |
|---|--|---|
| CS_OFFL_SIR_NOPM_2_20230211T174321_20230211T174632_C001 | Altimeter Range and Backscatter Quality | set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230211T180519_20230211T180933_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_20230211T181103_20230211T181417_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_20230211T185119_20230211T190739_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_20230211T191003_20230211T191443_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_20230211T191505_20230211T191629_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_20230211T192032_20230211T194400_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_20230211T194402_20230211T195538_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_20230211T202049_20230211T204725_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_20230211T204943_20230211T205345_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_20230211T205404_20230211T205729_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_20230211T205949_20230211T212729_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_20230211T212925_20230211T213213_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_20230211T215609_20230211T215823_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_20230211T215901_20230211T220515_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_20230211T220518_20230211T222649_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_20230211T222818_20230211T223259_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_20230211T223908_20230211T231426_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_20230211T232736_20230211T232913_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_20230211T234702_20230211T234704_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_20230211T235849_20230212T000113_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_20230211T023745_20230211T024043_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_20230211T124226_20230211T124350_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_20230211T131425_20230211T131435_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_20230211T140433_20230211T140435_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_20230211T154920_20230211T155053_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_20230211T184055_20230211T184254_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_20230211T062301_20230211T062801_C001 | and Backscatter Quality, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230211T064601_20230211T065213_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230211T113206_20230211T113247_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230211T132214_20230211T132451_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230211T152652_20230211T153132_C001 | and Backscatter Quality, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230211T214756_20230211T215022_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

75

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_NOPN_2_20230211T001849_20230211T001943_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_20230211T005717_20230211T005843_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_20230211T021311_20230211T021350_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_20230211T023745_20230211T024043_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_20230211T032725_20230211T032821_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_20230211T033356_20230211T033737_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_20230211T041734_20230211T042008_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_20230211T042206_20230211T042335_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_20230211T045555_20230211T045921_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_20230211T051251_20230211T051404_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_20230211T051541_20230211T051808_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_20230211T053514_20230211T053954_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_20230211T054000_20230211T054037_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_20230211T055028_20230211T055130_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_20230211T060611_20230211T060756_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_20230211T065459_20230211T065642_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_20230211T073452_20230211T073644_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_20230211T081331_20230211T081658_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_20230211T083157_20230211T083633_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_20230211T084228_20230211T084437_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_20230211T091431_20230211T091609_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_20230211T092312_20230211T092605_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_20230211T101335_20230211T101920_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_20230211T105425_20230211T105808_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_20230211T112045_20230211T112420_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_20230211T112436_20230211T112549_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_20230211T114001_20230211T114019_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_20230211T114203_20230211T114253_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_20230211T115528_20230211T115715_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_20230211T124226_20230211T124350_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_20230211T130358_20230211T130718_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_20230211T131455_20230211T131506_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_20230211T132451_20230211T132545_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_20230211T141112_20230211T141507_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_20230211T150354_20230211T150510_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_20230211T163859_20230211T164243_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_20230211T164247_20230211T164424_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_20230211T164944_20230211T165009_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_20230211T165716_20230211T170123_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_20230211T181417_20230211T181540_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_20230211T181802_20230211T181835_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_20230211T181911_20230211T182042_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 |

| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
|---|--|
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| 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 |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| 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 |
| 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 |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| 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 |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| 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 |
| 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 |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| 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 |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| 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 |
| 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 |
| OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG 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 |
| and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH | and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| | OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range |

| CS_OFFL_SIR_NOPR_2_20230211T132545_20230211T133603_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_20230211T150510_20230211T151232_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_20230211T164424_20230211T164944_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_20230211T181540_20230211T181802_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_20230211T182313_20230211T183023_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_20230211T213829_20230211T214728_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_20230211T232913_20230211T233123_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

lumber of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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 | 194 | 194 | 4 | 190 | 0 |
| SIR_NOPR1B | 105 | 105 | 0 | 105 | 0 |
| SIR_NOPN1B | 105 | 105 | 2 | 103 | 0 |
| SIR_NOPM_2 | 194 | 194 | 143 | 51 | 0 |
| SIR_NOPR_2 | 105 | 105 | 37 | 67 | 1 |
| SIR_NOPN_2 | 105 | 105 | 40 | 65 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

Product Type RLOBOPNCDF

4

RLOBOPNCDF

Total number of occurrences of each error

| Abbreviation | Toet name | | | Dotaile | | | | | | |
|-----------------------|-----------|---|---|---------|--|--|--|--|--|--|
| Test Description Key: | | | | | | | | | | |
| | | | | | | | | | | |
| SIR_NOPR_2 | 1 | 1 | 1 | 1 | | | | | | |

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

7.2 QCC Warnings

Product Type SIR_NOPM1B

SIR_NOPM_2

SIR_NOPN1B

SIR_NOPN_2

SIR_NOPR1B

SIR_NOPR_2

Number of QCC reports with warnings

190

102

103

1692

0

43

14

0

26

| i otal ilulib | Total number of occurrences of each warning | | | | | | | | |
|---------------|---|----------|-----------------|--------------------|--|--|--|--|--|
| DEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNCD | | | | | |
| | 0 | 0 | 0 | 0 | | | | | |
| | 39 | 0 | 41 | 0 | | | | | |
| | 0 | 0 | 0 | 0 | | | | | |
| | 30 | 4 | 28 | 36 | | | | | |
| | 0 | 0 | 0 | 0 | | | | | |
| | 39 | 0 | 28 | 22 | | | | | |

| Product Type | RBSZOPOEPNCDF | RMSSGHOPONCDF | RNELPOTONCDF | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARNCE | RPEPOPFDPLRMSINNCD | RPEPOPFDSARNCDF |
|--------------|---------------|---------------|--------------|-----------------|--------------------|--------------------|-----------------|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 34 | 1 | 0 | 35 | 0 | 0 | 0 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 23 | 0 | 0 | 0 | 0 | 21 | 0 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 12 | 0 | 1 | 0 | 36 | 0 | 38 |

| Product Type | RPEPOPFDSINNCDF | RPEPOPLRMNCDF | RPEPOPSARNCDF | RPEPOPSINNCDF | RSSBCONCDF | RSSHAOFDNCDF | RSSHAOFDPLRMNCDF |
|--------------|-----------------|---------------|---------------|---------------|------------|--------------|------------------|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 29 | 0 | 0 | 9 | 26 | 0 |

| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------|----|---|----|----|----|---|----|
| SIR_NOPN_2 | 31 | 0 | 0 | 26 | 12 | | 52 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 0 | 0 | 33 | 0 | 5 | | 36 |

| | Product Type | RSSHAONCDF | RSWHOEPFDNCDF | RSWHOEPFDPLRMNCDF | RSWHOEPNCDF | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF |
|---|--------------|------------|---------------|-------------------|-------------|-----------|--------------|------------|
| f | SIR NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | SIR NOPM 2 | 6 | 33 | 0 | 4 | 0 | 0 | 10 |
| | SIR NOPN1B | 0 | 0 | 0 | 0 | 0 | 51 | 10 |
| | SIR NOPN 2 | 34 | 27 | 25 | 10 | 2 | 0 | 0 |
| | SIR NOPR1B | 0 | 0 | 0 | 0 | 0 | 105 | 16 |
| | SIR NOPR 2 | 12 | 30 | 36 | 4 | 4 | 0 | 10 |

| 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 sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RBSZOPOEPNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RNELPOTONCDF | RangeNELPOceanTideOceanNetCDF | The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean | | | | | |
| RPEPOPFDLRMNCDF | RangePeakinessExcludingPolarOPFD2LRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPFDPLRMSAR NCDF | RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPFDPLRMSINN CDF | RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPFDSARNCDF | RangePeakinessExcludingPolarOPFD2SARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPFDSINNCDF | RangePeakinessExcludingPolarOPFD2SINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPLRMNCDF | RangePeakinessExcludingPolarOPLRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPSARNCDF | RangePeakinessExcludingPolarOPSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RPEPOPSINNCDF | RangePeakinessExcludingPolarOPSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RSSBCONCDF | RangeSeaStateBiasCorrectionOceanNetCDF | The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean | | | | | |
| RSSHAOFDNCDF | RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean | | | | | |
| RSSHAOFDPLRMNCD F | RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean | | | | | |
| RSSHAONCDF | RangeSeaSurfaceHeightAnomalyOceanNetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean | | | | | |
| RSWHOEPFDNCDF | RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RSWHOEPFDPLRMNC DF | RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RSWHOEPNCDF | RangeSignificantWaveHeightOceanExcludingPolarNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| SOOHHIFHD | SameOrOneHigher1HzIndexFor20HzData | The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample | | | | | |
| SCSTODHRNCDF | SequenceCounterStepTODHRNetCDF | The sequence counter should be modulo 4 higher with regard to the previous sequence counter | | | | | |
| SCSTODNCDF | SequenceCounterStepTODNetCDF | The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter | | | | | |

7.3 Missing QCC Reports

Number of products with missing QCC reports: