

QA4EO Daily Report for NOP data:

16/09/2021

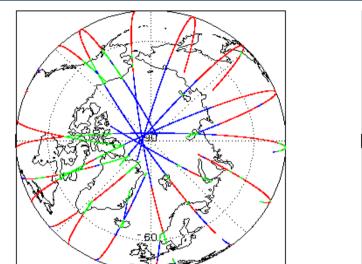
| onert Dreduction. | 17 Sep 2021 | Check | L1 & L2 |
|-----------------------|-------------------------------------|---|----------------------|
| Report Production: | 17-Sep-2021 | Server check: science-pds.cryosat.esa.int | Nominal |
| Processor Used: | CrucSet Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal |
| Processor Useu: | CryoSat Ocean Processor | Product Software Check | Nominal |
| Data Used: | Near Real Time Ocean Products (NOP) | Product Format Check | Nominal |
| 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 7.2 |

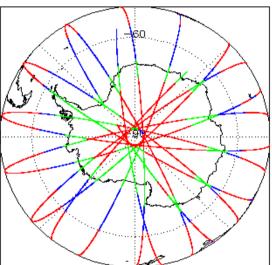
2. Global Coverage

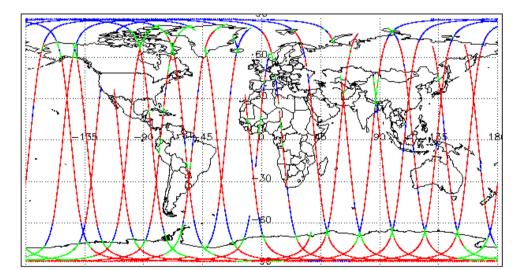
1. Overview

Mission / Instrument News 15-Sep-2021 None

| 15-Sep-2021 | |
|-------------|---|
| 16-Sep-2021 | SIRAL unavailability due to Orbit Control Manoeuvre from 00:55:57 to 02:42:49 |
| 17-Sep-2021 | Nothing planned |







| Mode Coverage | |
|---------------|-------|
| | LRM |
| | 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 |

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).

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

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:

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

 Number of products with errors:
 0

4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_NOPM1B_20210916T155545_20210916T163020_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20210916T175514_20210916T181000_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20210916T055520_20210916T055641_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20210916T072944_20210916T073043_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20210916T091401_20210916T091850_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20210916T154421_20210916T154524_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20210916T185946_20210916T190246_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20210916T190345_20210916T190558_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20210916T122814_20210916T123609_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20210916T155119_20210916T155544_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

5.2 L2 Product Header Analysis

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

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

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

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

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

Number of products with errors:

| Product | Test Failed | Description |
|---|--|--|
| CS_OFFL_SIR_NOPM_2_20210916T091850_20210916T093202_C001 | Topography (1), Total Geocentric Ocean | There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records |
| | | There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records |

| CC_OFFL_SIR_NOPN_2_20210916T0031927_20210916T0031927_20210916T0031927_20210916T0031927_20210916T0031927_20210916T0032925_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Topography (1) CS_OFFL_SIR_NOPN_2_20210916T0031927_20210916T0032902_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) ard the Mean Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20210916T050010_20210916T055641_C001 Mean Sas Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), ite Mean Dynamic Topography height (solution 1) and the Mean Topography height (solution 1) and the Mean Dynamic Topography Light (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), ite Mean Dynamic CS_OFFL_SIR_NOPN_2_20210916T065520_20210916T065641_C001 Mean Sas Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20210916T0663538_20210916T064133_C001 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_20210916T073643_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) ard the Mean Topography (1) <tr< th=""><th>Dynamic Dynamic Dynamic amic ride height Dynamic Dynamic Dynamic Dynamic</th></tr<> | Dynamic Dynamic Dynamic amic ride height Dynamic Dynamic Dynamic Dynamic |
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| Maan Saa Surface (1) Maan Dunamic There is an error with the MSS height (solution 1) and the Mean | |
| CS_OFFL_SIR_NOPN_2_20210916T131636_20210916T131949_C001 Topography (1) Topography (1) Topography (1) | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T145427_20210916T145835_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T150406_20210916T150531_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T154421_20210916T154524_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | one or |
| CS_OFFL_SIR_NOPN_2_20210916T164202_20210916T164345_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T172547_20210916T172643_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T181103_20210916T181245_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | one or |
| CS_OFFL_SIR_NOPN_2_20210916T181953_20210916T182209_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography (1) for one or more records | Jynamic |
| CS_OFFL_SIR_NOPN_2_20210916T185946_20210916T190246_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | one or |
| CS_OFFL_SIR_NOPN_2_20210916T190345_20210916T190558_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Topography height (solution 1) and the Total Geocentric Ocean (solution 1: GOT) for one or more records | |
| CS_OFFL_SIR_NOPN_2_20210916T195011_20210916T195201_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | one or |
| CS_OFFL_SIR_NOPN_2_20210916T195848_20210916T200334_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T204027_20210916T204422_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPN_2_20210916T214002_20210916T214153_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPR_2_20210916T005105_20210916T005558_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPR_2_20210916T104907_20210916T105427_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPR_2_20210916T121714_20210916T121915_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | ne or |
| CS_OFFL_SIR_NOPR_2_20210916T122814_20210916T123609_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPR_2_20210916T140648_20210916T141510_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPR_2_20210916T154745_20210916T155119_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records | Dynamic |
| CS_OFFL_SIR_NOPR_2_20210916T155119_20210916T155545_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | me or |
| CS_OFFL_SIR_NOPR_2_20210916T172643_20210916T173224_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Topography height (solution 1) for one or more records |)ynamic |
| CS_OFFL_SIR_NOPR_2_20210916T173238_20210916T173413_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for more records | |

| CS_OFFL_SIR_NOPR_2_20210916T175339_20210916T175514_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_20210916T190558_20210916T190902_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_20210916T190903_20210916T191253_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_20210916T204423_20210916T204942_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records |
| | | |

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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.

84

0

Number of products with errors:

| Product | Test Failed | Description |
|---|--|--|
| CS_OFFL_SIR_NOPM_2_20210916T000126_20210916T000604_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_20210916T000608_20210916T000940_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_20210916T001447_20210916T004726_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_20210916T024609_20210916T024636_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_20210916T025846_20210916T030333_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_20210916T033245_20210916T033740_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_20210916T033750_20210916T034321_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_20210916T034546_20210916T040851_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_20210916T042258_20210916T042844_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_20210916T043015_20210916T045310_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_20210916T050245_20210916T050438_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_20210916T051234_20210916T051815_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_20210916T051829_20210916T052739_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_20210916T052742_20210916T052902_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_20210916T053343_20210916T054047_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_20210916T055641_20210916T060011_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_20210916T060210_20210916T060801_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_20210916T060928_20210916T061743_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_0FFL_SIR_NOPM_2_20210916T062402_20210916T063440_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_20210916T064133_20210916T064353_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_20210916T065140_20210916T065736_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_20210916T065851_20210916T070531_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_20210916T070711_20210916T072247_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_20210916T074048_20210916T074241_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_20210916T074403_20210916T074714_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_20210916T074844_20210916T075112_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_20210916T075234_20210916T075545_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_20210916T080040_20210916T081506_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_20210916T081922_20210916T082758_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_20210916T083132_20210916T085301_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_20210916T090023_20210916T090030_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_20210916T093217_20210916T095450_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_20210916T100122_20210916T100559_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_20210916T101112_20210916T101316_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_20210916T101425_20210916T103835_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_20210916T110747_20210916T113302_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_20210916T114041_20210916T114635_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_20210916T115003_20210916T121018_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_20210916T121020_20210916T121554_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_20210916T123911_20210916T131213_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_20210916T131949_20210916T132507_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_20210916T133147_20210916T133339_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_20210916T140242_20210916T140648_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_20210916T141510_20210916T141546_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. |
| | | |

| DL_OPPL_SPL_VOMUL_2.001011146308_UD0101114610_D0101 Inter-Manue Inter, IDO SOM Manue Regulation Subscrept Calls Program South South Prog | CS_OFFL_SIR_NOPM_2_20210916T141703_20210916T142752_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. |
|---|---|--|--|
| S2.001.200.0001.200.0001110000.2001 Bescher Gabry or or or noncesta S2.0011.200.000112.2001001100000.2001 Sector Gabry in Codes Advances for a SUBA, SWI and Exclusion Codes For a SUBA, SWI and SW | CS_OFFL_SIR_NOPM_2_20210916T143038_20210916T145159_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| DQL_CHTBIT_UPCHT_ZUZUPPETETSUB_ZUZUPPETESUB_ZUZUPPETESUB_ZUZUPPETESSUB_ZUZUPPETESSUB_ZUZUPPETESSUB_ZUZU | CS_OFFL_SIR_NOPM_2_20210916T145959_20210916T150406_C001 | | |
| CS. OFT., SR. NOPM.2. 32(10)11115210. 302(10)1115275.001 min. Backsatter Quarky, Color Animeer Kang, SSR, Willington Color Anime | CS_OFFL_SIR_NOPM_2_20210916T150936_20210916T151913_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Cisi, Deris, Jain, MOPM, 2. 202100161158302, 202100161158302, 202100161158302, 202100161158304, 2021001611158304, 2021001611573031, 202100161158304, 2021001611753031, 202100161158304, 2021001611753031, 2021001611573031, 2021001611573031, 20210016118775331, 2001 Cist Anther Kango, SB40, SV/H and Backacater Caster, Finge Backacater Caster, Fi | CS_OFFL_SIR_NOPM_2_20210916T152101_20210916T152715_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CSL_DIFL_SR_NOPM_2_30216916T163548_J202191611715314_J20219916T163548_J202191611715314_J20219916T163548_J202191611715314_J20219916T163528_J2021 | CS_OFFL_SIR_NOPM_2_20210916T152852_20210916T153335_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| LSL DNE_LSR_NOPM_2_120210116T163037_20210116T163037_202101 Besisseline Guainy Besisseline Guainy Besisseline Guainy Besisseline Guainy CS_OPT_SR_NOPM_2_20210016T163037_20210116T163037_20210 COCIO Almorer Range Cuality COCIO The COCOA Almorer Range Cuality COCIO The COCOA Almorer Range Cuality COCIO CS_OPT_SR_NOPM_2_20210016T163037_20210016T175301_COCII COCIO Almorer Range Cuality Cuclion The COCOA Almorer Range, SBM, SWM The COCOA Almorer Range, SBM, SWM CS_OPT_SR_NOPM_2_20210016T176402_20210016T17531_COCII COCIA Almorer Range, SBM, SWM The COCOA Almorer Range, SBM, SWM The COCIA Almorer Range, SBM, SWM CS_OPT_SR_NOPM_2_20210016T176402_20210016T17531_COCII COCIA Almorer Range, SBM, SWM The CocinA Almorer Range, SBM, SWM The CocinA Almorer Range, SBM, SWM CS_OPT_SR_NOPM_2_20210016T175511_202101 COCIA Almorer Range, SBM, SWM The CocinA Almorer Range, SBM, SWM The CocinA Almorer Range, SBM, SWM CS_OPT_SR_NOPM_2_20210016T176514_2021016T1716200_COCII COCIA Almorer Range Cuality, COCI The CocinA Almorer Range, SBM, SWM CS_OPT_SR_NOPM_2_2021016T181202_2021016T181202_COCII COCIA Almorer Range Cuality, COCII The CocinA Almorer Range, SBM, SWM CS_OPT_SR_NOPM_2_2021016T181202_2021016T181202_COCII COCIA Almorer Range Cuality, COCII The CocinA AlmorerAlmage Almore Range, SBM, SWM <tr< td=""><td>CS_OFFL_SIR_NOPM_2_20210916T155545_20210916T163020_C001</td><td>and Backscatter Quality, OCOG Altimeter</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></tr<> | CS_OFFL_SIR_NOPM_2_20210916T155545_20210916T163020_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Biology Conf., DRPL, DRPL, DLR, DRPTE 19839 - LURL (DRPTE 19839 - LURL DRPTE 1983) - LURL DRPTE 19839 - | CS_OFFL_SIR_NOPM_2_20210916T163338_20210916T163851_C001 | | |
| CSLOPTLESR_NOPML2_0210916116482_202109161170202_0001 Backcoater Quality Tor one or more records. CSLOPTLESR_NOPML2_0210916116482_202109161170202_0001 Comma Altereder Range, SSHA, SWH and Backcoater Quality Flags have been attor are or more records. The OCOM Altereder Range and Backcoater Quality Flags have been attor are or more records. CSLOPTL_SR_NOPML2_002109161170514_002109161170501_0001 Range and Backcoater Quality. The OCOM Altereder Range and Backcoater Quality Flags have been attor are or more records. CSLOPTL_SR_NOPML2_002109161170514_002109161181700_0001 Rode Altereder Range, SSHA, SWH and Backcoater Quality Flags have been attor are or more records. CSLOPTL_SR_NOPML2_002109161118120_001001 Rode Altereder Range Quality. The OCOM Altereder Range and Backcoater Quality Flags have been attor are or more records. CSLOPTL_SR_NOPML2_002109161118120_001001 Rode Altereder Range, SSHA, SWH and Backcoater Quality Flags have been attor are or more records. CSLOPTL_SR_NOPML2_002109161118120_00101 COCO Altereder Range Quality. The OCOO Altereder Range and Backcoater Quality Flags have been attor and backcoater Quality. CSLOPTL_SR_NOPML2_002109161118120_0011 Cocean Altereder Range, SSHA, SWH and Backcoater Quality Flags have been attor and backcoater Quality. CSLOPTL_SR_NOPML2_002109161118128_00201 Cocean Altereder Range, SSHA, SWH and Backcoater Quality Flags have been attor and backcoater Quality. CSLOPTL_SR_NOPML2_002109161118128_00201 <td>CS_OFFL_SIR_NOPM_2_20210916T163857_20210916T163903_C001</td> <td></td> <td></td> | CS_OFFL_SIR_NOPM_2_20210916T163857_20210916T163903_C001 | | |
| CS_OFFL_SR_NOPM_2.20210916T162452_20210916T172027_C001 and Backscatter Quality and Backscatter Quality The Ocean Attender Range, SSH, SWH, The Ocean Attender Range, SSH, SWH, The Ocean Attender Range, SSH, SWH and Backscatter Quality Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for near near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH and Backscatter Quality, Flags have been set for one near the COCC Attender Range, SSH, SWH a | CS_OFFL_SIR_NOPM_2_20210916T163911_20210916T164202_C001 | | |
| CB: OFTL_SIR_NOPM_2_20210916T173414_Z0210916T175331_C001 and tackacater Quality, CCCO Almeter Range and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T178514_20210916T191000_C001 Cean Almeter Range SIM, SVM and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T181240_20210916T181700_C001 Cocan Almeter Range Quality, CCCO Almeter Range and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T181240_20210916T181700_C001 CCCO Almeter Range Quality, CCCO Almeter Range and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T182700_2010 CCCO Almeter Range, SIM, SVM and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T182700_2010 Cean Almeter Range, SIM, SVM and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T182700_2001 Cean Almeter Range, SIM, SVM and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T19250_20101 Cean Almeter Range, SIM, SVM and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T19250_20210916T19250_C001 Cean Almeter Range, SIM, SVM and Backacater Quality, Flags have been set for one or more records. CB: OFTL_SIR_NOPM_2_20210916T19250_201016T19457C001 Cean Almeter Range, SIM, SVM and Backacater Quality, Flags have been set for one or more records. | CS_OFFL_SIR_NOPM_2_20210916T164952_20210916T172027_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T192541_20210916T191000_C001 and Backscatter Quality COGG Altimeter and the codds. CS_OFFL_SIR_NOPM_2_20210916T191246_20210916T191750_C001 COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T192760_20210916T193730_C001 COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T192760_20210916T193730_C001 CocGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T192760_20210916T193730_C001 CocGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T192760_20210916T193730_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality. COCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been records. CS_OFFL_SIR_NOPM_2_20210916T192567_20210916T192567_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been records. CS_OFFL_SIR_NOPM_2_20210916T1933515_20210916T193356_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T1933515_20210916T194857_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T193515_20210916T194857_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have bee | CS_OFFL_SIR_NOPM_2_20210916T173414_20210916T175331_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CBJ DFFL_SIR_NOPM_2_20210916T181240_20210916T183730_0001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20210916T182720_20210916T183730_0001 Coean Atimater Range, SSHA, SWH mare Backscatter Quality Coean Atimater Range, SSHA, SWH and backscatter Quality Coean Atimater Range, SSHA, SWH and backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T184349_20210916T185945_0001 Coean Atimater Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20210916T191253_20210916T192907_0001 Coean Atimater Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T192012_2010916T192012_2010916T202727_0001 Ocoan Atimater Range, SSHA, SWH and Backsc | CS_OFFL_SIR_NOPM_2_20210916T175514_20210916T181000_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T182720_20210916T182730_C001 and Backscater Quality CCG Altmeter Range and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T182449_20210916T185445_C001 Cean Altmeter Range, SSHA, SWH and Backscater Quality CCG Altmeter Range and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T191253_20210916T19207_C001 Coean Altmeter Range, SSHA, SWH and Backscater Quality CCG Altmeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T191205_20210916T19207_C001 Coean Altmeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T193054_20210916T193336_C001 Coean Altmeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T193054_20210916T194837_C001 Coean Altmeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 COCG Altimeter Range Quality. COCG Altimeter Range and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202727_C001 COCGA Altimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202011_20210916T202727_C001 COCGA Altimeter Range, SSHA, SWH and Backscater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202611_20210916T21204027_C001 | CS_OFFL_SIR_NOPM_2_20210916T181246_20210916T181750_C001 | | |
| CS_OFFL_SIR_NOPM_2_20210916T18349_20210916T185945_C001 and Backscatter Quality and Backscatter Quality method COG Altimeter Range and Backscatter Quality Figs NoPM_2_20210916T191253_20210916T192907_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality Figs NoPM_2_20210916T191253_20210916T192907_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality Figs and the OCOG Altimeter Range and Backscatter Quality Figs NoPM_2_20210916T1933054_20210916T193335_C001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality Figs and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs and Backscatter Quality | CS_OFFL_SIR_NOPM_2_20210916T182720_20210916T183730_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T19253_20210916T192807_C001 and Backscatter Quality, CCOQ and the CCCQ Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20210916T193365_20210916T193336_C001 Cs an Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCQ Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20210916T193315_20210916T194837_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T193051_20210916T194837_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 OCCQ Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T200504_20210916T202727_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NO | CS_OFFL_SIR_NOPM_2_20210916T184349_20210916T185945_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T193054_20210916T193336_C001 and Backscatter Quality and the OCCOG Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T193515_20210916T194837_C001 Ocean Altimeter Range, SSHA, SWH The Occoa Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 OCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T200504_20210916T202727_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213245_20210916T2132619_C001 Ocean Altimeter Range Quality, OCCG The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213245_20210916T213619_C001 Ocean Altimeter Range Quality, OCCG The Ocean Altimeter Range and Backscatter Quality Flags have be | CS_OFFL_SIR_NOPM_2_20210916T191253_20210916T192907_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T1933515_20210916T194437_C001 and Backscatter Quality and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T200504_20210916T202727_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and backscatter Quality. The OCean Altimeter Range, and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and backscatter Quality. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213245_20210916T213619_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backs | CS_OFFL_SIR_NOPM_2_20210916T193054_20210916T193336_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20210916T200504_20210916T202727_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T213619_C001 OCCGA Altimeter Range Quality, OCCG The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCCGA Altimeter Range Quality, OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCCGA Altimeter Range Quality, OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM | CS_OFFL_SIR_NOPM_2_20210916T193515_20210916T194837_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T200504_20210916T202727_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG 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_20210916T213641_20210916T214002_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T214364_20210916T214002_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatt | CS_OFFL_SIR_NOPM_2_20210916T195201_20210916T195701_C001 | | |
| CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213245_20210916T213619_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T213619_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T21138_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. | CS_OFFL_SIR_NOPM_2_20210916T200504_20210916T202727_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and Backscatter Quality and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213245_20210916T213619_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_20210916T213641_20210916T214002_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210916T214346_20210916T221138_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20210916T202811_20210916T204027_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_202109161213245_202109161213619_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 OCOG 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_20210916T214346_20210916T221138_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. | CS_OFFL_SIR_NOPM_2_20210916T210640_20210916T212702_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_202109161213641_202109161214002_C001 Backscatter Quality for one or more records. Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter and the OCOG Altimeter Range and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20210916T213245_20210916T213619_C001 | | |
| CS_OFFL_SIR_NOPM_2_20210916T214346_20210916T221138_C001 and Backscatter Quality, OCOG Altimeter and the OCOG Altimeter Range and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20210916T213641_20210916T214002_C001 | | |
| | CS_OFFL_SIR_NOPM_2_20210916T214346_20210916T221138_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |

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| CS_OFFL_SIR_NOPM_2_20210916T222939_20210916T223004_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_20210916T223013_20210916T223234_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_20210916T224209_20210916T230655_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_20210916T231029_20210916T231534_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_20210916T232315_20210916T235639_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_20210916T004931_20210916T005105_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_20210916T073447_20210916T073659_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_20210916T133718_20210916T133722_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_20210916T154421_20210916T154524_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_20210916T185946_20210916T190246_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_20210916T210101_20210916T210437_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_20210916T042154_20210916T042258_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_20210916T061743_20210916T061957_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_20210916T205017_20210916T205138_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
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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 |
|---|---|--|
| CS_OFFL_SIR_NOPN_2_20210916T004931_20210916T005105_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_20210916T025523_20210916T025845_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_20210916T032532_20210916T032902_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_20210916T050010_20210916T050115_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_20210916T050439_20210916T050742_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_20210916T050908_20210916T051104_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_20210916T054047_20210916T054206_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_20210916T063538_20210916T064133_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_20210916T072944_20210916T073043_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_20210916T073823_20210916T074048_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records. |

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| CS_OFFL_SIR_NOPN_2_20210916T074241_20210916T074403_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_20210916T075723_20210916T080039_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_20210916T082759_20210916T082957_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_20210916T085441_20210916T085801_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_20210916T085849_20210916T090008_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_20210916T091401_20210916T091850_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_20210916T095713_20210916T095835_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_20210916T113815_20210916T114041_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_20210916T114635_20210916T114802_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_20210916T131636_20210916T131949_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_20210916T135738_20210916T135822_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_20210916T140115_20210916T140242_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_20210916T145427_20210916T145835_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_20210916T152803_20210916T152852_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_20210916T154200_20210916T154245_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_20210916T172028_20210916T172204_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_20210916T183730_20210916T183836_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_20210916T185946_20210916T190246_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_20210916T195011_20210916T195201_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_20210916T204027_20210916T204422_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_20210916T210101_20210916T210437_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_20210916T213619_20210916T213626_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_20210916T214002_20210916T214153_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_20210916T223349_20210916T223406_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_20210916T224116_20210916T224209_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_20210916T001057_20210916T001446_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_20210916T031516_20210916T031926_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
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| CS_OFFL_SIR_NOPR_2_20210916T032903_20210916T033244_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_20210916T045310_20210916T050009_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_20210916T061743_20210916T061957_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_20210916T072827_20210916T072944_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_20210916T081506_20210916T081737_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_20210916T090037_20210916T090104_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_20210916T100818_20210916T101111_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_20210916T104907_20210916T105427_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_20210916T113303_20210916T113645_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_20210916T121554_20210916T121611_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_20210916T121714_20210916T121915_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_20210916T122233_20210916T122413_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_20210916T122814_20210916T123609_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_20210916T131213_20210916T131636_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_20210916T132621_20210916T133146_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_20210916T135414_20210916T135738_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_20210916T140648_20210916T141510_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_20210916T145159_20210916T145426_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_20210916T154745_20210916T155119_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_20210916T155119_20210916T155545_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_20210916T164345_20210916T164952_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_20210916T172643_20210916T173224_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_20210916T175339_20210916T175514_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_20210916T182210_20210916T182720_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_20210916T184137_20210916T184349_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_20210916T190558_20210916T190902_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_20210916T190903_20210916T191253_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_20210916T204423_20210916T204942_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_20210916T205017_20210916T205138_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_20210916T230655_20210916T230856_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: | 164 | | |
|---------------------------------|----------|--|--|
| 5.7 L2 Ocean Retracking Qualit | ty Check | | |

| L2 Retracking Flags (20Hz) | |
|--|--|
| 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.

54

117

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.

0

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 | 139 | 139 | 3 | 136 | 0 |
| SIR_NOPR1B | 89 | 89 | 0 | 89 | 0 |
| SIR_NOPN1B | 98 | 98 | 0 | 98 | 0 |
| SIR_NOPM_2 | 139 | 139 | 87 | 52 | 0 |
| SIR_NOPR_2 | 89 | 89 | 29 | 60 | 0 |
| SIR_NOPN_2 | 98 | 98 | 40 | 58 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

| iber of QCC repu | orts with warnings | 1466 | Total n | umber of occurrences of | of each warning | | |
|------------------|--------------------|-----------------|------------------|-------------------------|----------------------|-------------------|---------------|
| Product Type | BCSHNCDF | MVIOEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNC | RBSZOPOEPNCDF |
| SIR_NOPM1B | 136 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 35 | 31 | 2 | 34 | 0 | 32 |
| SIR_NOPN1B | 98 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 7 | 27 | 3 | 21 | 28 | 19 |
| SIR_NOPR1B | 86 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 0 | 28 | 32 | 0 | 30 | 27 | 14 |
| | | | | | | ÷ | • |
| Product Type | RNELPOTONCDF | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARI | | NCDF RPEPOPFDSARNCDF | RPEPOPFDSINNCDF | RPEPOPLRMNCDF |
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 1 | 28 | 0 | 0 | 0 | 0 | 21 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 0 | 0 | 19 | 0 | 28 | 0 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 0 | 0 | 34 | 0 | 41 | 0 | 0 |
| | | | | · | | | |
| Product Type | RPEPOPSARNCDF | RPEPOPSINNCDF | RSSBCONCDF | RSSHAOFDNCDF | RSSHAOFDPLRMNCDF | RSSHAONCDF | RSWHOEPFDNCDF |
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 0 | 5 | 26 | 0 | 4 | 29 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 24 | 13 | 38 | 45 | 24 | 25 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 32 | 0 | 0 | 51 | 36 | 5 | 32 |
| | | | | | | | |
| Product Type | RSWHOEPFDPLRMNCDF | RSWHOEPNCDF | SCSTODHRNCDF | SCSTODNCDF | - | - | - |
| SID NODM1D | 0 | 0 | 0 | 0 | | | |

| Product Type | RSWHOEPFDPLRMNCDF | RSWHOEPNCDF | SCSTODHRNCDF | SCSTODNCDF | - | - | - |
|--------------|-------------------|-------------|--------------|------------|---|---|---|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | | | |
| SIR_NOPM_2 | 0 | 3 | 0 | 0 | | | |
| SIR_NOPN1B | 0 | 0 | 43 | 0 | | | |
| SIR_NOPN_2 | 26 | 11 | 0 | 0 | | | |
| SIR_NOPR1B | 0 | 0 | 89 | 1 | | | |
| SIR_NOPR_2 | 40 | 2 | 0 | 0 | | | |

| Test Description Key: | | | | | | |
|-----------------------|---|--|--|--|--|--|
| Abbreviation | Test name | Details | | | | |
| BCSHNCDF | BurstCounterStep20HzNetCDF | The burst counter should be one higher with regard to the previous burst counter | | | | |
| MVIOEPFDNCDF | MissingValueIntOceanExcludingPolarFD2NetCDF | The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees | | | | |

| MVIOEPNCDF | MissingValueIntOceanExcludingPolarNetCDF | The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees |
|-------------------------|---|---|
| MVIONCDF | MissingValueIntOceanNetCDF | The value should not be a 'missing value' for surface type 0 only |
| RBSZOPOEPFDNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RBSZOPOEPFDPLRM NCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RBSZOPOEPNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RNELPOTONCDF | RangeNELPOceanTideOceanNetCDF | The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean |
| RPEPOPFDLRMNCDF | RangePeakinessExcludingPolarOPFD2LRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDPLRMSAR NCDF | RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| | RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDSARNCDF | RangePeakinessExcludingPolarOPFD2SARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDSINNCDF | RangePeakinessExcludingPolarOPFD2SINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPLRMNCDF | RangePeakinessExcludingPolarOPLRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPSARNCDF | RangePeakinessExcludingPolarOPSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPSINNCDF | RangePeakinessExcludingPolarOPSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RSSBCONCDF | RangeSeaStateBiasCorrectionOceanNetCDF | The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean |
| RSSHAOFDNCDF | RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| RSSHAOFDPLRMNCD | RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| F 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 |
| DF 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 |
| 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:

0