

QA4EO Daily Report for NOP data:

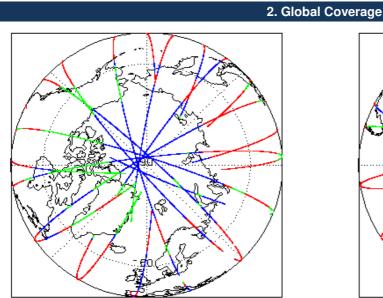
<u>22/02/2022</u>

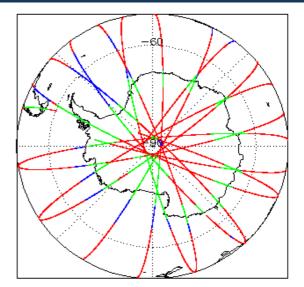
IDEAS-QA4E0

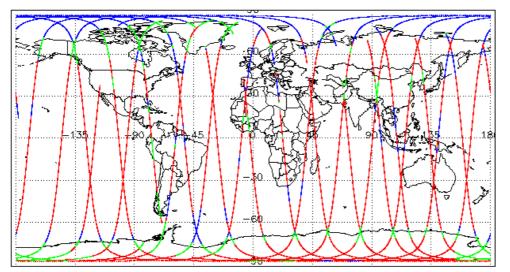
| Demant Due de stieres | 00 E-k 0000 | Check | L1 & L2 |
|-----------------------|-------------------------------------|---|------------------------------|
| Report Production: | 23-Feb-2022 | Server check: science-pds.cryosat.esa.int | Nominal |
| Processor Used: | CryoSat Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal |
| Processor Used: | CryoSal Ocean Processor | Product Software Check | Nominal |
| Data Used: | Near Real Time Ocean Products (NOP) | Product Format Check | Nominal |
| Data Used: | 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 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 |

1. Overview

| Mission / Instru | Mission / Instrument News | | |
|------------------|---|--|--|
| 21-Feb-2022 | None | | |
| 22-Feb-2022 | SIRAL Unavailability due to Orbit Control Manoeuvre on 22/02/2022 16:36:28 – 18:44:37 UTC | | |
| 23-Feb-2022 | Nothing planned | | |









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

| 4.2 L1B Product Header Analysis | | | | |
|---|---|---|--|--|
| For all products, a series of pre-defined checks are performed on the MPH and | d SPH in order to identify any inconsi | stencies and/or errors raised by the ground-segment processing chain. | | |
| L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L OSARIn chains. A modification is required in the next release. | 1B NOPR and NOPN products beca | use the I1b_processing_quality_hr field is not correctly configured in the OSAR and | | |
| Number of products with errors: 0 | | | | |
| 4.3 L1B Auxilary Data File Usage Check | | | | |
| Each product is checked for missing Data Set Descriptors with respect to a pro- | e-determined baseline and also to ch | eck the validity of Auxiliary Data Files is correct. | | |
| > Dynamic Atmospheric Correction: The DAC is missing in all products bec | ause the auxiliary files required are n | ot 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 recor | d. The bit value of this flag indicates | any problems when set. | | |
| Number of products with errors: 0 | | | | |
| 4.5 L1B Measurement Confidence Data Check | | | | |
| CryoSat L1B data includes a measurement confidence flag for each measurer | nent record. The bit value of this flag | indicates any problems when set. | | |
| > Attitude Correction Missing: This flag is currently set in error for NOPR prupdated in the next SW update. | oducts due to a configuration issue. T | The attitude correction is not actually missing, This is being investigated and will be | | |
| Number of products with errors: 3 | | | | |
| Product | Test Failed | Description | | |
| CS_OFFL_SIR_NOPM1B_20220222T100926_20220222T102250_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records | | |
| CS_OFFL_SIR_NOPM1B_20220222T132347_20220222T134915_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records | | |
| CS_OFFL_SIR_NOPM1B_20220222T225030_20220222T225349_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 | d. The bit value of this flag indicates a | 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: 9 | | | | |
| Product | Test Failed | Description | | |
| CS_OFFL_SIR_NOPM1B_20220222T092246_20220222T092953_C001 | Loss of Echo | The tracking echo is missing for one or more records | | |
| CS_OFFL_SIR_NOPN1B_20220222T000913_20220222T001101_C001 | Loss of Echo | The tracking echo is missing for one or more records | | |
| CS_OFFL_SIR_NOPN1B_20220222T153647_20220222T154111_C001 | Loss of Echo | The tracking echo is missing for one or more records | | |
| CS_OFFL_SIR_NOPN1B_20220222T204630_20220222T205017_C001 | Loss of Echo | The tracking echo is missing for one or more records | | |
| CS_OFFL_SIR_NOPR1B_20220222T023026_20220222T023529_C001 | Loss of Echo | The tracking echo is missing for one or more records | | |
| CS OFFL SIR NOPR1B 20220222T104248 20220222T104354 C001 | Loss of Echo | The tracking echo is missing for one or more records | | |

CS_OFFL_SIR_NOPR1B_20220222T123128_20220222T123218_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20220222T205017_20220222T205105_C001 Loss of Echo The tracking echo is missing for one or more records

Loss of Echo

5. NOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

5.1 L2 Product Format Check

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

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

CS OFFL SIR NOPR1B 20220222T122555 20220222T123119 C001

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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

Number of products with errors:

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_NOPN_2_20220222T005510_20220222T010057_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_20220222T013833_20220222T013951_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_20220222T014747_20220222T015024_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_20220222T031753_20220222T031914_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_20220222T032803_20220222T032927_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_20220222T045743_20220222T050108_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_20220222T055626_20220222T055858_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_20220222T063648_20220222T064009_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_20220222T064526_20220222T064649_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_20220222T072629_20220222T072902_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), 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), 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_20220222T082415_20220222T082533_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_20220222T090700_20220222T090805_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_20220222T100124_20220222T100324_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_20220222T122043_20220222T122555_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_20220222T135838_20220222T140418_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_20220222T153647_20220222T154111_C001 | Total Geocentric Ocean Tide (GOT) | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records |
| CS_OFFL_SIR_NOPN_2_20220222T163013_20220222T163137_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_20220222T194944_20220222T195250_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_20220222T195526_20220222T200037_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_20220222T204630_20220222T205017_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_20220222T213005_20220222T213239_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_20220222T222515_20220222T222632_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_20220222T222855_20220222T223133_C001 | Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) | There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records |
| CS_OFFL_SIR_NOPN_2_20220222T230504_20220222T231114_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_20220222T023026_20220222T023529_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_20220222T040725_20220222T041730_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_20220222T054740_20220222T055626_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_20220222T072902_20220222T073646_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_20220222T090805_20220222T091519_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_20220222T104720_20220222T105409_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_20220222T122555_20220222T123119_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_20220222T123128_20220222T123218_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_20220222T140418_20220222T140622_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_20220222T140622_20220222T141331_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_20220222T154111_20220222T154855_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_20220222T191200_20220222T191812_C001 | Total Geocentric Ocean Tide (GOT) | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records |

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: 3 Test Failed Product Description CS_OFFL_SIR_NOPM_2_20220222T100926_20220222T102250_C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more records CS OFFL SIR NOPM 2 20220222T132347 20220222T134915 C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more records CS_OFFL_SIR_NOPM_2_20220222T225030_20220222T225349_C001 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_20220222T000101_20220222T000913_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_20220222T001109_20220222T002730_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_20220222T003124_20220222T003603_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_20220222T011014_20220222T011402_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_20220222T011405_20220222T013722_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_20220222T013951_20220222T014154_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_20220222T014232_20220222T014747_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_20220222T015024_20220222T021541_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_20220222T024824_20220222T031604_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_20220222T032159_20220222T032803_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_20220222T032927_20220222T035745_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_20220222T042114_20220222T045516_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_20220222T050109_20220222T050635_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_20220222T050806_20220222T051426_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_20220222T060047_20220222T060913_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_20220222T061157_20220222T063452_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_20220222T064009_20220222T064113_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_20220222T064117_20220222T064526_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_20220222T064655_20220222T070701_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_20220222T071028_20220222T071437_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_20220222T073902_20220222T081251_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_20220222T082032_20220222T082414_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_20220222T082617_20220222T082851_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_20220222T083113_20220222T090242_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_20220222T091648_20220222T091651_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_20220222T091732_20220222T091733_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_20220222T092246_20220222T092953_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_20220222T093728_20220222T095219_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_20220222T095355_20220222T095911_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_20220222T100926_20220222T102250_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_20220222T102658_20220222T103706_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_20220222T110432_20220222T111310_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_20220222T111635_20220222T113130_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_20220222T113322_20220222T113823_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_20220222T113848_20220222T113858_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_20220222T115248_20220222T115926_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_20220222T120422_20220222T120843_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_20220222T121126_20220222T121715_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_20220222T124807_20220222T131041_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_20220222T131352_20220222T131741_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_20220222T131802_20220222T132039_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_20220222T132347_20220222T134915_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_20220222T142437_20220222T145010_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_20220222T145136_20220222T145656_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_20220222T150309_20220222T153647_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_20220222T160650_20220222T161957_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_20220222T162328_20220222T162958_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_20220222T163137_20220222T163628_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_20220222T184721_20220222T185655_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_20220222T190831_20220222T190900_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_20220222T191007_20220222T191200_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_20220222T192726_20220222T193332_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_20220222T193519_20220222T194846_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_20220222T195250_20220222T195526_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_20220222T200133_20220222T203217_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_20220222T205105_20220222T212303_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_20220222T213239_20220222T213434_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_20220222T213638_20220222T213939_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_20220222T214101_20220222T214511_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_20220222T214537_20220222T220956_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_20220222T222632_20220222T222855_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_20220222T223555_20220222T224742_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_20220222T230407_20220222T230504_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_20220222T231412_20220222T231840_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_20220222T232032_20220222T233526_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_20220222T233705_20220222T233948_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_20220222T235158_20220222T235224_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_20220222T055626_20220222T055858_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_20220222T055915_20220222T060009_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_20220222T113858_20220222T113901_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_20220222T124152_20220222T124551_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_20220222T191200_20220222T191812_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_20220222T214512_20220222T214536_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_20220222T234210_20220222T234415_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.

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Number of products with errors:

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_NOPN_2_20220222T000913_20220222T001101_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_20220222T003603_20220222T003949_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_20220222T005510_20220222T010057_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_20220222T013833_20220222T013951_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_20220222T045743_20220222T050108_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_20220222T050635_20220222T050752_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_20220222T064526_20220222T064649_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_20220222T070702_20220222T071028_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_20220222T072629_20220222T072902_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_20220222T082415_20220222T082533_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_20220222T100124_20220222T100324_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_20220222T104504_20220222T104720_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_20220222T114804_20220222T115248_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_20220222T115926_20220222T120353_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_20220222T122043_20220222T122555_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_20220222T123658_20220222T123701_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_20220222T124152_20220222T124551_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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|--|---|---|--|
| 000000000000000000000000000000000000 | CS_OFFL_SIR_NOPN_2_20220222T135237_20220222T135443_C001 | | |
| Cold Tuber Unit Unit Unit Unit Unit Unit Unit Unit | CS_OFFL_SIR_NOPN_2_20220222T135838_20220222T140418_C001 | | |
| City City City City City City City City | CS_OFFL_SIR_NOPN_2_20220222T150028_20220222T150150_C001 | | |
| es. OFTL. BRI. NOPHL 2, 18228222719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 2222822719494. 222822719494. 22882844 2249 http://doi.org//doi. | CS_OFFL_SIR_NOPN_2_20220222T192527_20220222T192726_C001 | | |
| Display Display memory memory memory memory Cisplay Cisplay< | CS_OFFL_SIR_NOPN_2_20220222T194944_20220222T195250_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Disk Disk <thdisk< th=""> Disk Disk <thd< td=""><td>CS_OFFL_SIR_NOPN_2_20220222T195526_20220222T200037_C001</td><td></td><td>· · ·</td></thd<></thdisk<> | CS_OFFL_SIR_NOPN_2_20220222T195526_20220222T200037_C001 | | · · · |
| DCOR Backsoner Gally DCOR Backsoner Gally | CS_OFFL_SIR_NOPN_2_20220222T204630_20220222T205017_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Open PT, Sin J, NOPR 2, 20220227123140_0202227123291_001 OCC Backcatter Quilty PTM, OCC Anternet Range and Backcatter Quilty Ptags. OS, OFFL_SIR_NOPR 2, 20220227123140_0202227123291_001 Methods State S | CS_OFFL_SIR_NOPN_2_20220222T213435_20220222T213637_C001 | 0 | |
| GS_OFFL_SIR_NOPR_2_2022022T022829_2022022T022829_20202022T022829_2020022T022829_2020022T02289_2020022T02289_2020022T02289_2020022T02809_2020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T002809_20020022T004709_2020022T004709_2020022T004709_2020022T004709_2020022T004709_2020022T004709_2020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T004709_20020022T005669_20001 | CS_OFFL_SIR_NOPN_2_20220222T230504_20220222T231114_C001 | | |
| GS. OFFL_SIR_NOPR_2_2022022T02828_020022T02828_0001 and backaster Cually PLIN. Immuno Company SPLN, NOPR GS. OFFL_SIR_NOPR_2_2022022T02869_2022022T02804_0001 Decan Alimeter Range and Backaster Cually PLIN. The Ocean Alimeter Range and Backaster Cually Flags have been and to company SPLN, SPLN | CS_OFFL_SIR_NOPN_2_20220222T231840_20220222T232021_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_2022022T02283_20222T023094_C001 and Backscatter Quality PLB, COO Allmeter Range and Backscatter Quality PLB, there been and to not more records import Range, SSHA, SWH and Backscatter Quality PLB, there been and to not more records CS_OFFL_SIR_NOPR_2_2022022T032084_2022T033098_00222T033098_0001 Ocean Allmeter Range, SSHA, SWH and Backscatter Quality PLB, SCH, QUAL Allmeter Range and Backscatter Quality PLB, SCH, QUAL Allmeter Range and Backscatter Quality FLB, SCH, QUAL Allmeter Range and Backscatter Quality FLB, SCH, SWH and Backscatter Quality FLB, SCH, Allmeter Range and Backscatter Quality FLB, SCH, Allmeter Range, SSHA, SWH and Backscatter Quality FLB, SC, OFFL_SIR_NOPR_2_2022022T054740_2022022T055686_C001 The Ocean Allmeter Range, SSHA, SWH and Backscatter Quality FLB, Allmeter Range and Backscatter Quality FLB, Allmeter Range and Backscatter Quality FLB, Allmeter Range, SSHA, SWH and Backscatter Quality FLB, and Backscatter Quality FLB, SCH, Allmeter Range and Backscatter Quality FLB, and Backscatter Quality FLB, SCH, NOPR_2_20220222T073866_C001 The Ocean Allmeter Range, SSHA, SWH and Backscatter Quality FLB, and Backscatter Quality FLB, SCH, NOPR_2_20220222T073866_C001 The Ocean Allmeter Range, SSHA, SWH and Backscatter Quality FLB, and Backscatter Quality FLB, SCH, NOPR_2_20220222T073866_C001 The Ocean Allmeter Range, SSHA, SWH and Backscatter Quality FLB, SCH, SCH, SCH, NOPR_2_20220222T073864_C001 Ocean Allmeter Range, SSHA, SWH and Backscatter Quality FLB, SCH, SCH, SCH, SCH, SCH, SCH, SCH, SCH, | CS_OFFL_SIR_NOPR_2_20220222T022623_20220222T022829_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| GS_OFFL_SIR_NOPR_2_2022022T02302_072322T023529_C001 and Backsatter Quality PLRM, COCO Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting and Backsatter Quality Flags have been after one or more reacting. GS_OFFL_SIR_NOPR_2_2022022T040725_0222022T041730_C001 Desan Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. The Ocean Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. GS_OFFL_SIR_NOPR_2_2022022T064740_20220222T056626_C001 Desan Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. The Ocean Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. GS_OFFL_SIR_NOPR_2_2022022T066913_2022022T056626_C0011 Desan Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. The Ocean Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. GS_OFFL_SIR_NOPR_2_2022022T076901_3_2022022T073646_C0011 Desan Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. The Ocean Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after one or more reacting. GS_OFFL_SIR_NOPR_2_2022022T073764_0220222T073764_0220222T073764_0202022T073764_0202022T073764_0202022T073764_0202022T073764_0202022T07364_02001 DOCOA Attimeter Range, SSHA, SWH and Backsatter Quality Flags have been after on one one necods. GS_OFFL_SIR_NOPR_2_2022022T092055_2022022T092054_C0011 Decean Attimeter Range, SSHA, SWH and Backsatter Quality Flags have | CS_OFFL_SIR_NOPR_2_20220222T022859_20220222T023004_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| GS_OFFL_SIR_NOPR_2_20220222T04725_2022022T041730_C001 and Backscatter Quaity PLBM mot be COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBS, and the COGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter Quaity PLBM, COCGA Altmeter Range, SSHA, SWH and Backscatter | CS_OFFL_SIR_NOPR_2_20220222T023026_20220222T023529_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| GS_OFFL_SIR_NOPR_2_2022022T054740_2022022T055666_C001 All Backscatter Quality PLRM_COCO Intel Cole number Plange and Backscatter Quality Plags GS_OFFL_SIR_NOPR_2_20220222T060913_2022022T061157_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO GS_OFFL_SIR_NOPR_2_20220222T072902_2022022T073646_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO GS_OFFL_SIR_NOPR_2_20220222T073904_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO GS_OFFL_SIR_NOPR_2_20220222T073754_20220222T073646_C001 CCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO GS_OFFL_SIR_NOPR_2_20220222T090805_2022022T091519_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO GS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO GS_OFFL_SIR_NOPR_2_20220222T09805_20220222T09344_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCO The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM_COCOG GS_OFFL_SIR_NOPR_2_20220222T0 | CS_OFFL_SIR_NOPR_2_20220222T040725_20220222T041730_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_20220222T060913_20220222T0157_C001 and Backscatter Qualiy PLRM, OCGA Interfer Range and Backscatter Qualiy PLRM, OCGA CS_OFFL_SIR_NOPR_2_20220222T072902_20220222T073646_C001 Qualiy PLRM, OCGA The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualiy PLRM, OCGA CS_OFFL_SIR_NOPR_2_20220222T073646_C001 Qualiy PLRM, OCGA The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualiy PLRM, OCGA CS_OFFL_SIR_NOPR_2_20220222T073764_20220222T073902_C001 QCGG Altimeter Range, SSHA, SWH, and Backscatter Qualiy PLRM, OCGA The OCGG Range and Backscatter Qualiy FLRM, OCGA CS_OFFL_SIR_NOPR_2_20220222T093085_20220222T093092_C001 QCGG Altimeter Range, SSHA, SWH and Backscatter Qualiy FLRM, OCGA The OCGG Range and Backscatter Qualiy FLRM, OCGA CS_OFFL_SIR_NOPR_2_20220222T093085_20220222T091519_C001 QCGean Altimeter Range, SSHA, SWH and Backscatter Qualiy FLRM, OCGA The OCGG Range and Backscatter Qualiy FLRM, OCGA GS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 QCean Altimeter Range, SSHA, SWH and Backscatter Qualiy FLRM, OCGA The OCGA Altimeter Range, SSHA, SWH and Backscatter Qualiy FLRM, OCGA GS_OFFL_SIR_NOPR_2_20220222T1092053_20220222T093434_C001 QCean Altimeter Range, SSHA, SWH and Backscatter Qualiy FLRM, OCGA The OCGA Range and Backscatter Qualiy FLRM, OCGA GS_OFFL_SIR_NOPR_2_20220222T1092504_C001 QCCGA Altimeter Range, SSHA, SWH and Backscatter Qualiy FLRM, OCGA The OCGG Range and Backscatter Qualiy FLRM, OCGA | CS_OFFL_SIR_NOPR_2_20220222T054740_20220222T055626_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_20220222T073902_20220222T073646_C001 and Backscatter Quality PLM, CCCG Alimeter Range and Backscatter Quality PLRM CCG_OFFL_SIR_NOPR_2_20220222T073754_20220222T073902_C001 OCCG Alimeter Range and Backscatter Quality PLRM, CCCG CS_OFFL_SIR_NOPR_2_20220222T073754_20220222T073902_C001 OCCG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T093005_2022022T091519_C001 OCCG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 OCCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T093434_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T093434_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T10250_20222T109264_C001 OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T104246_20220222T104344_C001 OCCGA Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T104250_20222T104246_C001 OCCGA Altimeter Range Quality PLRM, OCCG <td>CS_OFFL_SIR_NOPR_2_20220222T060913_20220222T061157_C001</td> <td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td> | CS_OFFL_SIR_NOPR_2_20220222T060913_20220222T061157_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| US_OFFL_SIR_NOPR_2_20220221103/39_20220221109304_C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T093434_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T1093434_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been PLRM CS_OFFL_SIR_NOPR_2_20220222T10250_2022022T102504_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_20220222T103706_20220222T104216_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_20220222T104248_20220222T104354_C001 OCOG Altimeter Range SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_NOPR_2_202202222T104354_2020222T104354_C001 | CS_OFFL_SIR_NOPR_2_20220222T072902_20220222T073646_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_20220222T090805_20220222T091519_C001 and Backscatter Quality PLRM_OCCG and Bockscatter Quality PLRM_OCCG CS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 and Backscatter Quality PLRM_OCCG and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and be COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T093434_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T10250_2022022T102504_C001 CCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_NOPR_2_20220222T103706_20220222T104216_C001 CCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_NOPR_2_20220222T104216_C001 CCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_NOPR_2_20220222T104248_20220222T104354_C001 CCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_NOPR_2_20220222T104248_20220222T104354_C001 CCCG Altimeter Range Quality PLRM, OCCG CS_OFFL_SIR_NOPR_2_20220222T104354_C001 CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T104354_C001 C | CS_OFFL_SIR_NOPR_2_20220222T073754_20220222T073902_C001 | OCOG Backscatter Quality | |
| CS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20220222T10250_2022022T104216_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Qu | CS_OFFL_SIR_NOPR_2_20220222T090805_20220222T091519_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T093434_C001and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRMThe OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality PLRMCS_OFFL_SIR_NOPR_2_20220222T102250_20220222T102504_C001OCOG Attimeter Range Quality PLRM, OCOG Backscatter QualityThe OCOG Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_NOPR_2_20220222T103706_20220222T104216_C001OCOG Attimeter Range Quality PLRM, OCOG Backscatter QualityThe OCOG Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_NOPR_2_20220222T104248_20220222T104354_C001OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_NOPR_2_20220222T104354_20220222T104354_20200222T104354_20220222T104354_20220222T104503_C001Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPR_2_20220222T091801_20220222T092245_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_20220222T10250_20220221T102504_C0011 OCOG Backscatter Quality more records CS_OFFL_SIR_NOPR_2_20220222T103706_20220222T104216_C001 OCOG Attimeter 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_20220222T104248_20220222T104354_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPR_2_20220222T092953_20220222T093434_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPR_2_20220222T103706_20220222T104216_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_NOPR_2_20220222T104248_20220222T104354_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 PLRM CS_OFFL_SIR_NOPR_2_20220222T104354_20220222T104354_20200222T104503_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, ocog 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 and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been exercise | CS_OFFL_SIR_NOPR_2_20220222T102250_20220222T102504_C001 | | |
| CS_OFFL_SIR_NOPR_2_20220222T104248_20220222T104354_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_NOPR_2_20220222T104354_20220222T104503_C001 Altimeter Range, SSHA, SWH And Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Altimeter Range, SSHA, SWH Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags | CS_OFFL_SIR_NOPR_2_20220222T103706_20220222T104216_C001 | OCOG Backscatter Quality | |
| CS_OFFL_SIR_NOPR_2_20220222T104354_20220222T104503_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPR_2_20220222T104248_20220222T104354_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| | CS_OFFL_SIR_NOPR_2_20220222T104354_20220222T104503_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |

| CS_OFFL_SIR_NOPR_2_20220222T104720_20220222T105409_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_20220222T111455_20220222T111634_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_20220222T113130_20220222T113134_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_20220222T121837_20220222T122043_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_20220222T123128_20220222T123218_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_20220222T124644_20220222T124807_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_20220222T132258_20220222T132347_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_20220222T140418_20220222T140622_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_20220222T140622_20220222T141331_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_20220222T150150_20220222T150309_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_20220222T154932_20220222T155127_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_20220222T161957_20220222T162327_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_20220222T191200_20220222T191812_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_20220222T191956_20220222T192021_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_20220222T194847_20220222T194944_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_20220222T200037_20220222T200133_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_20220222T223327_20220222T223554_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_20220222T234210_20220222T234415_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.

151

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

```
Number of products with errors:
```

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

109

51

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 | 181 | 181 | 7 | 174 | 0 |
| SIR_NOPR1B | 89 | 89 | 0 | 89 | 0 |
| SIR_NOPN1B | 83 | 83 | 1 | 82 | 0 |
| SIR_NOPM_2 | 181 | 181 | 128 | 53 | 0 |
| SIR_NOPR_2 | 89 | 89 | 33 | 53 | 3 |
| SIR_NOPN_2 | 83 | 83 | 33 | 50 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

| Number of QCC rep | orts with er | rors: | 6 | | | | | | | | |
|------------------------|--------------|------------------|------------|---|-------------------|-----------------|-----------------|---|---|---|---|
| | | | | | Total number | of occurrences | s of each error | | | | |
| Product Type RLO | BOPNCDF | RL | RLOBOPNCDF | RL | - | - | - | - | - | - | - |
| SIR_NOPR_2 | 3 | 3 | 3 | 3 | | | | | | | |
| | | | | | | | | | | | |
| Test Description Ke | ey: | | | | | | | | | | |
| Abbreviation Test name | | | Details | | | | | | | | |
| RLOBOPNCDF | RangeLa | titudeOrBlankOP_ | 7NetCDF | Latitude should be | between -90E7 an | d 90E7 - NetCDF | | | | | |
| RL | RangeLa | titude_7 | | Latitude should be between -90E7 and 90E7 | | | | | | | |
| RLOBOPNCDF | RangeLo | ngitudeOrBlankOF | P_7NetCDF | Longitude should be between -180E7 and 180E7 - NetCDF | | | | | | | |
| RL | RangeLo | ngitude_7 | | Longitude should b | be between -180E7 | and 180E7 | | | | | |

7.2 QCC Warnings

Number of QCC reports with warnings

| Number of QCC report | ts with warnings | 1396 | | | | | |
|----------------------|------------------|----------|--------------|--------------------------|------------|-----------------|--------------------|
| | | | Total numb | per of occurrences of ea | ch warning | | |
| Product Type | BCSHNCDF | IOHHMOOR | MVIOEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNCD |
| SIR_NOPM1B | 174 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 0 | 34 | 34 | 0 | 43 | 0 |
| SIR_NOPN1B | 82 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 0 | 8 | 26 | 6 | 18 | 21 |
| SIR_NOPR1B | 87 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 0 | 3 | 14 | 29 | 1 | 20 | 19 |

| Product Type | RBSZOPOEPNCDF | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARN | ICERPEPOPFDPLRMSINN | ICD RPEPOPFDSARNCDF | RPEPOPFDSINNCDF | RPEPOPLRMNCDF |
|---------------|------------------|-----------------|------------------|---------------------|---------------------|-----------------|---------------|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 36 | 32 | 0 | 0 | 0 | 0 | 23 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 13 | 0 | 0 | 14 | 0 | 26 | 0 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 11 | 0 | 30 | 0 | 38 | 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 | 6 | 19 | 0 | 4 | 34 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 21 | 13 | 36 | 43 | 20 | 26 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR NOPR 2 | 29 | 0 | 7 | 41 | 16 | 6 | 20 |
| _ | | | | • | | - | |
| Product Type | RSWHOEPFDPLRMNCD | RSWHOEPNCDF | SPHRTASCNSNCDF | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF | - |
| i iouuot iype | | | | | | | |

| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------|----|----|---|---|----|---|--|
| SIR_NOPM_2 | 0 | 1 | 0 | 0 | 0 | 0 | |
| SIR_NOPN1B | 0 | 0 | 1 | 0 | 39 | 1 | |
| SIR_NOPN_2 | 26 | 14 | 0 | 1 | 0 | 0 | |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 89 | 4 | |
| SIR_NOPR_2 | 31 | 1 | 0 | 5 | 0 | 0 | |

| Fest 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 | | | | | | |
| 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 |
|-----------------------|--|---|
| | 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 |
| SPHRTASCNSNCDF | SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF | Rel_Time_ASC_Node_Stop mismatch |
| SOOHHIFHD | SameOrOneHigher1HzIndexFor20HzData | The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample |
| SCSTODHRNCDF | SequenceCounterStepTODHRNetCDF | The sequence counter should be modulo 4 higher with regard to the previous sequence counter |
| SCSTODNCDF | SequenceCounterStepTODNetCDF | The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter |

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0