





1. Overview

QA4EO Daily Report for NOP data:

| Report Production: | 17-Mar-2023 | |
|--------------------|--|--|
| Processor Used: | CryoSat Ocean Processor | |
| Data Used: | Near Real Time Ocean Products (NOF L1B & L2 Science Data | |

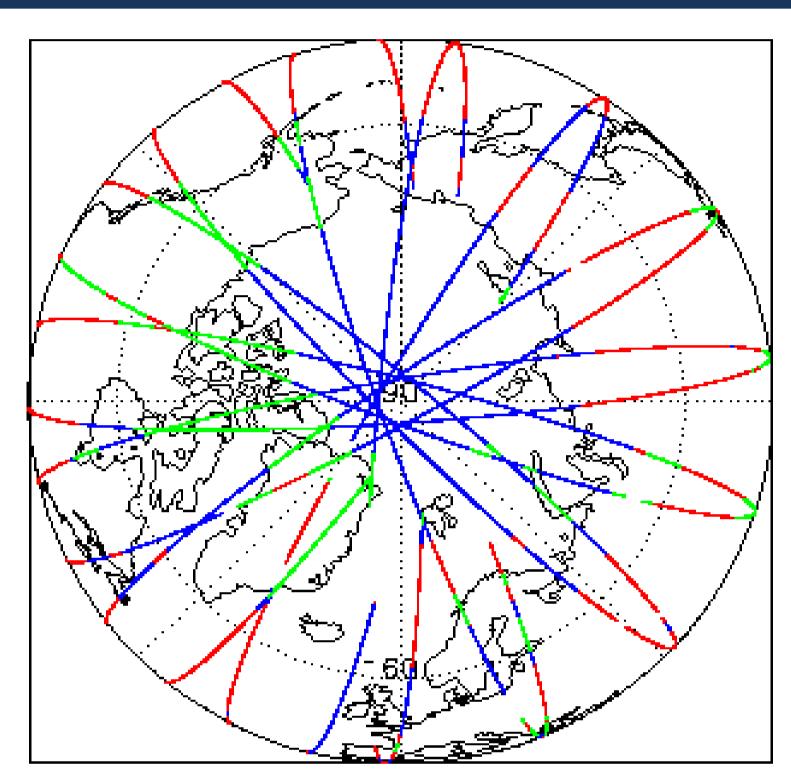
We would love to hear from you!

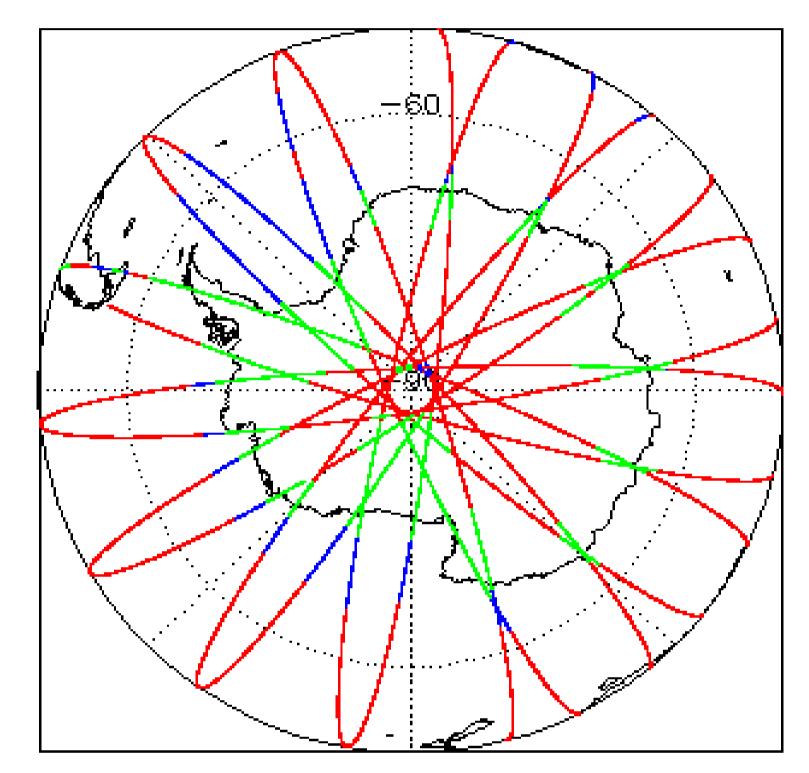
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

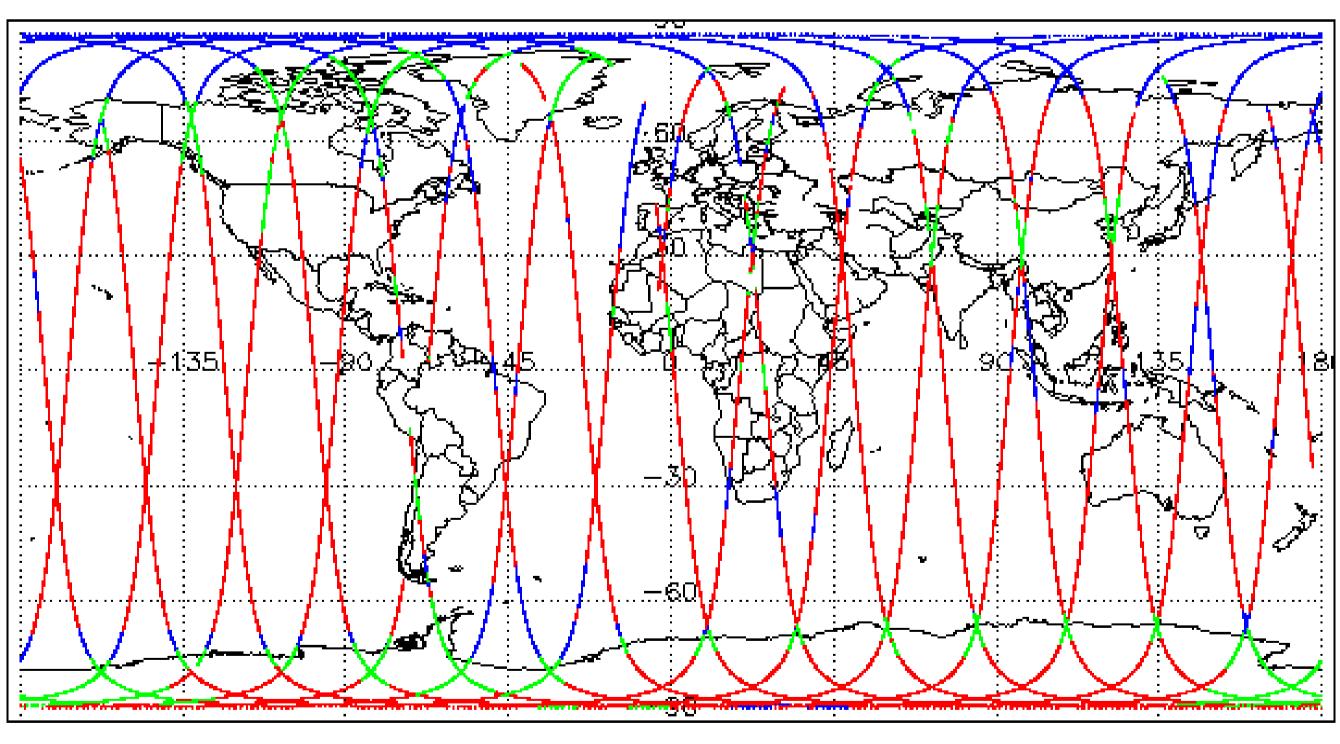
| Check | L1 & L2 |
|---|------------------------------|
| Server check: science-pds.cryosat.esa.int | Nominal |
| Server check: calval-pds.cryosat.esa.int | Nominal |
| Product Software Check | Nominal |
| Product Format Check | Nominal |
| Product Header Analysis | Nominal |
| Auxiliary Data File Usage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

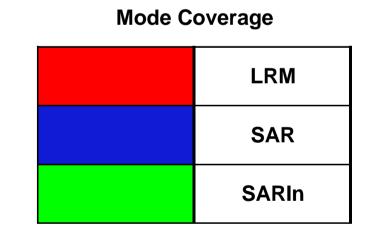
| Mission / Instru | ment News |
|------------------|-----------------|
| 15-Mar-2023 | None |
| 16-Mar-2023 | None |
| 17-Mar-2023 | Nothing planned |

2. Global Coverage









3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

4.2 L1B Product Header Analysis

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

> L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the l1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

| Product | Test Failed | Description |
|---|---------------------|--|
| CS_OFFL_SIR_NOPM1B_20230316T115158_20230316T115339_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |

4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_NOPM1B_20230316T030753_20230316T032331_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20230316T114634_20230316T115126_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20230316T115158_20230316T115339_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20230316T154029_20230316T154923_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20230316T163156_20230316T163452_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230316T021252_20230316T021733_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230316T080358_20230316T080520_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230316T102039_20230316T102140_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230316T143735_20230316T143928_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230316T152109_20230316T152325_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20230316T221531_20230316T221729_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230316T035548_20230316T040012_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230316T102330_20230316T103220_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20230316T223340_20230316T223629_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: 0

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).

0

0

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

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

Number of products with errors:

| | I | L |
|---|---|--|
| Product | Test Failed | Description |
| CS_OFFL_SIR_NOPM_2_20230316T072326_20230316T075221_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_20230316T011721_20230316T012001_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_20230316T012201_20230316T012732_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_20230316T021252_20230316T021733_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_20230316T025635_20230316T025910_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_20230316T035156_20230316T035305_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_20230316T053114_20230316T053706_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_20230316T061404_20230316T061552_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_20230316T062404_20230316T062628_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_20230316T071126_20230316T071535_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_20230316T085324_20230316T085743_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_20230316T093340_20230316T093713_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_20230316T111257_20230316T111617_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_20230316T112130_20230316T112254_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_20230316T120339_20230316T120500_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_20230316T130033_20230316T130141_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_20230316T143735_20230316T143928_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_20230316T152109_20230316T152325_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_20230316T161608_20230316T162111_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_20230316T165655_20230316T170206_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_20230316T174642_20230316T174935_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_20230316T175810_20230316T175858_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_20230316T183648_20230316T184030_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_20230316T202644_20230316T202810_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_20230316T224547_20230316T224712_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_20230316T225231_20230316T225536_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_20230316T034519_20230316T034847_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_20230316T034847_20230316T035156_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_20230316T052449_20230316T053114_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_20230316T070637_20230316T071126_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_20230316T084323_20230316T085324_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_20230316T102330_20230316T103220_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_20230316T120500_20230316T121242_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_20230316T134411_20230316T135123_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_20230316T145855_20230316T150108_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_NOPR_2_20230316T152326_20230316T153018_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_20230316T170207_20230316T170814_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_20230316T184030_20230316T184949_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_20230316T201723_20230316T202501_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:

4

| Product | Test Failed | Description |
|---|---------------------|---|
| CS_OFFL_SIR_NOPM_2_20230316T115158_20230316T115339_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors: 84

| Product | Test Failed | Description |
|---|--|---|
| CS_OFFL_SIR_NOPM_2_20230315T234818_20230316T002257_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_20230316T004733_20230316T005154_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_20230316T005250_20230316T011028_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_20230316T011330_20230316T011438_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_20230316T012851_20230316T014429_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_20230316T014549_20230316T014621_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_20230316T015102_20230316T015809_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_20230316T021810_20230316T023553_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_20230316T023717_20230316T025113_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_20230316T025911_20230316T030111_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_20230316T030219_20230316T030614_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_20230316T030753_20230316T032331_0 | C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
|--|-------------|--|---|
| CS_OFFL_SIR_NOPM_2_20230316T032533_20230316T033455_0 | C001 | _ | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T040246_20230316T041357_0 | C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T043002_20230316T043405_0 | C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T043717_20230316T044516_0 | (:()()1 | 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_20230316T044706_20230316T050239_0 | C001 | · · · · · · · · · · · · · · · · · · · | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T053931_20230316T054909_0 | C001 | and Backscatter Quality, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T054911_20230316T061323_0 | C001 | I - | The Ocean Altimeter Range, SSHA, SWH 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_20230316T061553_20230316T061801_0 | | 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_20230316T061828_20230316T062404_0 | ((()()1 | 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_20230316T062631_20230316T065150_0 | C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T072326_20230316T075221_0 | 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_20230316T075803_20230316T080239_0 | .001 | 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_20230316T080521_20230316T083257_0 | C001 | <u> </u> | The Ocean Altimeter Range, SSHA, SWH 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_20230316T083359_20230316T083401_0 | (()()1 | 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_20230316T084246_20230316T084322_0 | 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_20230316T085743_20230316T093135_0 | C001 | • | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T093713_20230316T094246_0 | (.()()1 | 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_20230316T094410_20230316T095033_0 | C001 | _ · · · · · · · · · · · · · · · · · · · | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T100958_20230316T101125_0 | (:()() 1 | 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_20230316T102140_20230316T102330_0 | C001 | • | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T103650_20230316T111100_0 | C001 | 1 | The Ocean Altimeter Range, SSHA, SWH 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_20230316T111617_20230316T112130_0 | (.()()1 | 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_20230316T112312_20230316T114312_0 | 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_20230316T121502_20230316T123532_0 | C001 | and Backscatter Quality, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T123642_20230316T124846_0 | 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_20230316T125635_20230316T130032_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_20230316T130234_20230316T133133_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_20230316T133150_20230316T133850_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_20230316T134020_20230316T134301_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_20230316T135822_20230316T140554_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_20230316T141036_20230316T141148_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_20230316T141151_20230316T142818_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_20230316T142959_20230316T143517_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_20230316T144601_20230316T145854_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_20230316T150109_20230316T151306_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_20230316T154029_20230316T154923_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T154925_20230316T155056_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_20230316T155236_20230316T160737_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_20230316T160925_20230316T161429_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_20230316T162301_20230316T162358_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_20230316T162755_20230316T162849_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_20230316T163156_20230316T163452_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_20230316T164610_20230316T165309_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_20230316T172323_20230316T172709_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_20230316T172830_20230316T174635_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_20230316T174935_20230316T175346_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_20230316T175408_20230316T175556_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_20230316T175942_20230316T182328_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_20230316T190036_20230316T192622_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_20230316T192737_20230316T193301_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_20230316T193308_20230316T193633_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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|---|--|---|
| CS_OFFL_SIR_NOPM_2_20230316T193849_20230316T201209_C001 | _ | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T204343_20230316T205745_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T205923_20230316T210601_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T210734_20230316T211541_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_20230316T211817_20230316T215304_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPM_2_20230316T220616_20230316T220718_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_20230316T221801_20230316T221929_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_20230316T223629_20230316T224530_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_20230316T224712_20230316T225229_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_20230316T225749_20230316T232041_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_20230316T232327_20230316T233247_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_20230316T234450_20230316T234900_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_20230316T005154_20230316T005227_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_20230316T051655_20230316T051659_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_20230316T094246_20230316T094402_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_NOPN_2_20230316T222608_20230316T222631_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_20230316T225231_20230316T225536_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_20230316T043447_20230316T043451_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_20230316T151306_20230316T151331_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_20230316T205745_20230316T205923_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_20230316T211654_20230316T211817_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 |

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors: 77

| Product | Test Failed | Description |
|---|---|---|
| CS OFFE SIR NOPN 2 202303161005154 202303161005227 C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| | Tann Barksrandi Unlainiy Pi Rivi Ululus | The Ocean Altimeter Range, SSHA, SWH 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_20230316T021252_20230316T021733_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_20230316T053114_20230316T053706_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_20230316T065424_20230316T065554_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_20230316T070055_20230316T070116_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_20230316T070449_20230316T070508_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_20230316T071126_20230316T071535_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_20230316T071621_20230316T071743_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_20230316T071833_20230316T072325_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_20230316T075334_20230316T075444_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_20230316T080239_20230316T080333_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_20230316T085324_20230316T085743_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPN_2_20230316T093340_20230316T093713_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_20230316T100105_20230316T100244_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_20230316T101206_20230316T101346_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_20230316T101449_20230316T101501_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_20230316T114313_20230316T114633_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_20230316T130033_20230316T130141_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_20230316T143735_20230316T143928_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_20230316T152109_20230316T152325_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_20230316T153700_20230316T154029_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_20230316T161608_20230316T162111_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_20230316T162850_20230316T163156_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_20230316T164448_20230316T164610_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_20230316T165321_20230316T165443_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_20230316T165655_20230316T170206_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_20230316T171823_20230316T172129_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_20230316T175556_20230316T175810_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_20230316T183648_20230316T184030_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_20230316T185624_20230316T185857_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_20230316T185906_20230316T190036_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_20230316T192622_20230316T192736_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_20230316T201209_20230316T201723_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_20230316T202644_20230316T202810_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_20230316T210610_20230316T210734_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_20230316T220719_20230316T220734_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_20230316T221531_20230316T221729_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_20230316T225231_20230316T225536_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_20230316T015809_20230316T020301_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_20230316T023553_20230316T023717_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_20230316T032331_20230316T032532_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_20230316T034519_20230316T034847_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_20230316T034847_20230316T035156_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_20230316T035548_20230316T040012_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_20230316T050341_20230316T051054_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_20230316T052449_20230316T053114_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_20230316T053706_20230316T053931_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_20230316T070225_20230316T070448_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_20230316T070508_20230316T070604_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_20230316T070637_20230316T071126_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_20230316T075222_20230316T075333_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_20230316T084030_20230316T084245_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_20230316T084323_20230316T085324_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 NORS 2 2020319T10912 2020319T10950 COO. CS. OFFL SIR NORS 2 2020319T10912 2020319T1090 COO. CS. OFFL SIR NORS 2 2020319T1092 2020319T1090 COO. CS. OFFL SIR NORS 2 2020319T1090 COO. CS. OFFL SIR NORS 2 2020319T1092 2020319T1090 COO. CS. OFFL SIR NORS 2 2020319T1090 COO. CS. OFFL SIR NORS | CS_OFFL_SIR_NOPR_2_20230316T102330_20230316T103220_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 |
|--|---|--|---|
| SS_OFT_SIR_NOPR_2_accounterTopiol_20202 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_20202 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_20202 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_20202 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_20202 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_20202 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_2020 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_2020 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_2020 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_2020 e119162_cont SS_OFT_SIR_NOPR_2_accounterTopiol_2020 e119162_cont Assert Straigs and Standard endorse and accounter topiol_2020 endorse and strain accounter to account to accounter to accounter to accounter to accounter to account to accounter to account to account to accounter to account to accounter to account to accounter to account to accounter to account to acc | CS_OFFL_SIR_NOPR_2_20230316T115126_20230316T115148_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12619_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12629_20200161750162_CD2 CG_CFF_SR_NOFR_2_2022GNRT12629_2020016175016_CD2 CG_CFF_SR_NOFR_2_2022GNRT12629_20200 | CS_OFFL_SIR_NOPR_2_20230316T120500_20230316T121242_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_000001612982_20000167139418_2000016715908_20000016715908_2000016715908_2000016715908_2000016715908_2000016715908_2000016715908_2000016715908_2000016715908_2000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_20000016715908_200000016715908_200000016715908_200000000000000000000000000000000000 | CS_OFFL_SIR_NOPR_2_20230316T121311_20230316T121502_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFF_SIR_NOPR_2_2020316113414_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113414_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113414_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113414_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113613_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113613_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113613_2020316113613_CO1 CS_OFF_SIR_NOPR_2_2020316113613_2020316113613_CO1 CS_OFF_SIR_NOPR_2_20203161146913_CO1 CS_OFF_SIR_NOPR_2_20203161146913_2020316116013_CO1 CS_OFF_SIR_NOPR_2_20203161146913_2020316116013_CO1 CS_OFF_SIR_NOPR_2_2020316114693_2020316116013_CO1 CS_OFF_SIR_NOPR_2_2020316114693_2020316116013_CO1 CS_OFF_SIR_NOPR_2_2020316116013_2020316116013_CO1 CS_OFF_SIR_NOPR_2_20203161170012_20203161170013_CO1 CO00 Alternor Repro_Sir-Sir-Sir-Sir-Sir-Sir- | CS_OFFL_SIR_NOPR_2_20230316T125618_20230316T125623_C001 | _ | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SR_NOPR_2_2020316T136322_2020316T136321 CD1 | CS_OFFL_SIR_NOPR_2_20230316T133133_20230316T133150_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Bascistate's Quality PLEM, CODS Allement Range, SHA, SVH and Backcaster Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_202303*6T14806_2033016T149018_COT CS_OFFL_SIR_NOPR_2_202303*6T14806_2033016T16908_COT CS_OFFL_SIR_NOPR_2_202303*6T14806_2033016T16908_COT CS_OFFL_SIR_NOPR_2_202303*6T14806_2033016T16908_COT CS_OFFL_SIR_NOPR_2_202303*6T16908_COT CS_OFFL_SIR_NOPR_2_202303*6T176082_COT CS_OFFL_SIR_NOPR_2_202303*6T1760 | CS_OFFL_SIR_NOPR_2_20230316T134411_20230316T135123_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| GS_OFFL_SIR_NOPR_2_20230316T149885_20230316T149805_C001 OSOFFL_SIR_NOPR_2_20230316T149885_20230316T149805_C001 OSOFFL_SIR_NOPR_2_20230316T14988_20230316T16918_C001 OSOFFL_SIR_NOPR_2_20230316T1698_20230316T16918_C001 OSOFFL_SIR_NOPR_2_20230316T1698_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16928_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_C001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_2001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_2001 OSOFFL_SIR_NOPR_2_20230316T16938_20230316T16938_2001 OSOFFL_SIR_NOPR_2_20230316T16938_2003016T16938_2001 OSO | CS_OFFL_SIR_NOPR_2_20230316T135352_20230316T135821_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| OCOS Baskscatter Guality GS_OFFL_SIR_NOPR_2_20230316T151648_20230316T152108_C001 CS_OFFL_SIR_NOPR_2_20230316T151648_20230316T152108_C001 CS_OFFL_SIR_NOPR_2_20230316T152226_20230316T153108_C001 CS_OFFL_SIR_NOPR_2_20230316T16438_20230316T164286_C001 CS_OFFL_SIR_NOPR_2_20230316T16438_20230316T164286_C001 CS_OFFL_SIR_NOPR_2_20230316T166443_20230316T166565_C001 CS_OFFL_SIR_NOPR_2_20230316T166443_20230316T166565_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170816_C001 CS_OFFL_SIR_NOPR_2_20230316T186400_20230316T186400_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T20501_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T20501_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T20501_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203048_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T20501_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T20501_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T223040_C001 CS_OFFL_SIR_NOPR_2_20230316T203041_20230316T223040 | CS_OFFL_SIR_NOPR_2_20230316T143928_20230316T144601_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_20230316T161648_20230316T16208_D001 Allmeter Range_and Backscatter Quality PLRM. OCCO Allmeter Range_and Backscatter Quality Plags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230316T162328_20230316T163018_C001 CS_OFFL_SIR_NOPR_2_20230316T164138_20230316T164236_C001 CS_OFFL_SIR_NOPR_2_20230316T164138_20230316T164236_C001 CS_OFFL_SIR_NOPR_2_20230316T16543_20230316T165854_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T1702014_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170204_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170204_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170203_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T100203_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202001_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202001_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202001_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202001_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203016T203020_C001 CS_OFFL_SIR_NOPR_2_20230316T203016T203016T203020_C001 CS_OFFL | CS_OFFL_SIR_NOPR_2_20230316T145855_20230316T150108_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| And Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230316T164138_20230316T164236_C001 COGA Alimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230316T165443_20230316T165654_C001 COGA Alimeter Range Guality PLRM, OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230316T165443_20230316T165654_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_C001 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T184030_20230316T184949_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202503_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202503_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202503_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202503_C001 CS_OFFL_SIR | CS_OFFL_SIR_NOPR_2_20230316T151648_20230316T152108_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | |
| CS OFFL SIR NOPR 2 20230316T165443 20230316T165654 C001 CS OFFL SIR NOPR 2 20230316T165443 20230316T165654 C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_C001 CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T170923_C001 CS_OFFL_SIR_NOPR_2_20230316T120323_C001 CS_OFFL_SIR_NOPR_2_20230316T120323_C00316T164949_C001 CS_OFFL_SIR_NOPR_2_20230316T120323_C00316T164949_C001 CS_OFFL_SIR_NOPR_2_20230316T10001_C00316T164949_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T10001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T10001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T10001 CS_OFFL_SIR_NOPR_2_20230316T202301_C001 CS_OFFL_SIR_NOPR_2_20230316T202301_C001 CS_OFFL_SIR_NOPR_2_20230316T202301_C001 CS_OFFL_SIR_NOPR_2_20230316T202301_C001 CS_OFFL_SIR_NOPR_2_20230316T202301_C001 CS_OFFL_SIR_NOPR_2_20230316T203201_C001 CS_OFFL_SIR_NOPR_2_20230316T203201_C001 CS_OFFL_SIR_NOPR_2_20230316T203301_C00316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203301_C00316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203301_C00316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203301_C00316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203301_C00316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203301_C00316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203300_20230316T203209_C001 CS_OFFL_SIR_NOPR_2_20230316T203300_20230316T2233209_C001 CS_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233209_C001 CCG_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233209_C001 CCG_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233209_C001 CCG_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233209_C001 CCG_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233209_C001 CCG_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233209_C001 CCG_OFFL_SIR_NOPR_2_20230316T2233300_20230316T2233300_20230316T2233300_20230316T2233300_20230316T2233300_20230316T2233300_20230316T2233300_20230316T | CS_OFFL_SIR_NOPR_2_20230316T152326_20230316T153018_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_CO01 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170823_CO01 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170823_CO01 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T184949_CO01 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T184949_CO01 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_CO01 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_CO01 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202849_CO01 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202849_CO01 CS_OFFL_SIR_NOPR_2_20230316T2028340_20230316T202849_CO01 CS_OFFL_SIR_NOPR_2_20230316T2028340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T225340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316T2253340_20230316T225749_CO01 CS_OFFL_SIR_NOPR_2_20230316 | CS_OFFL_SIR_NOPR_2_20230316T164138_20230316T164236_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_C001 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170823_C001 CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170823_C001 CS_OFFL_SIR_NOPR_2_20230316T184030_20230316T184949_C001 CS_OFFL_SIR_NOPR_2_20230316T184030_20230316T184949_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T20303 | CS_OFFL_SIR_NOPR_2_20230316T165443_20230316T165654_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_20230316T184030_20230316T184949_C001 CS_OFFL_SIR_NOPR_2_20230316T184030_20230316T184949_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T20723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202810_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202810_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T203840_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T203840_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T203840_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225340_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225340_20230316T225749_C00 | CS_OFFL_SIR_NOPR_2_20230316T170207_20230316T170814_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_20230316T184030_20230316T184949_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202501_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 CS_OFFL_SIR_NOPR_2_20230316T210601_20230316T20609_C001 CS_OFFL_SIR_NOPR_2_20230316T210601_20230316T210609_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T225639_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225345_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T22 | CS_OFFL_SIR_NOPR_2_20230316T170822_20230316T170923_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPR_2_20230316T184030_20230316T184949_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_20230316T2028T1_20230316T20609_C001 CS_OFFL_SIR_NOPR_2_20230316T210601_20230316T210609_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T2253345_20230316T2233443_C001 OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPR_2_20230316T201723_20230316T202501_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_20230316T210601_20230316T210609_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 CS_OFFL_SIR_NOPR_2_20230316T223345_20230316T2233443_C001 CS_OFFL_SIR_NOPR_2_20230316T233345_20230316T233345_20230316T233343_C001 CS_OFFL_SIR_NOPR_2_20230316T233345_20230316T233343_C001 | CS_OFFL_SIR_NOPR_2_20230316T202811_20230316T202949_C001 | _ | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223549_C001 OCOG Backscatter Quality OCOG Backscatter Quality More records The Ocean Altimeter Range, SSHA, SWH 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_20230316T225537_20230316T225749_C001 OCOG Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records OCOG Backscatter Quality The Ocog Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPR_2_20230316T210601_20230316T210609_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_20230316T225537_20230316T225749_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM 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 and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPR_2_20230316T223340_20230316T223629_C001 | | The OCOG Range and Backscatter Quality Flags have been set for one or more records |
| | CS_OFFL_SIR_NOPR_2_20230316T225537_20230316T225749_C001 | and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| DCOG Backscatter Quality more records | CS_OFFL_SIR_NOPR_2_20230316T233345_20230316T233443_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records |

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

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.

55

122

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:

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 | 182 | 182 | 2 | 180 | 0 |
| SIR_NOPR1B | 107 | 107 | 0 | 107 | 0 |
| SIR_NOPN1B | 100 | 100 | 1 | 99 | 0 |
| SIR_NOPM_2 | 182 | 182 | 132 | 50 | 0 |
| SIR_NOPR_2 | 107 | 107 | 41 | 65 | 1 |
| SIR_NOPN_2 | 100 | 100 | 43 | 57 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

4

| Total number | of occurrences | of each error | |
|--------------|----------------|---------------|--|
| | | | |

| Product Type | RLOBOPNCDF | RL | RLOBOPNCDF | RL | - | - | - | - | - | - | - |
|---------------------|------------|----|------------|----|---|---|---|---|---|---|---|
| SIR_NOPR_2 | 1 | 1 | 1 | 1 | | | | | | | |

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

7.2 QCC Warnings

Number of QCC reports with warnings

1580

| Product Type | BCSHNCDF | IOHHMOOR | MVIOEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNCD |
|--------------|----------|----------|--------------|------------|----------|-----------------|--------------------|
| SIR_NOPM1B | 180 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 0 | 36 | 40 | 0 | 40 | 0 |
| SIR_NOPN1B | 96 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 0 | 10 | 30 | 5 | 25 | 29 |
| SIR_NOPR1B | 104 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR NOPR 2 | 0 | 1 | 23 | 31 | 1 | 27 | 19 |

| Product Type | RBSZOPOEPNCDF | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARNCI | RPEPOPFDPLRMSINNCD | RPEPOPFDSARNCDF | RPEPOPFDSINNCDF | RPEPOPLRMNCDF |
|--------------|---------------|-----------------|--------------------|--------------------|-----------------|-----------------|---------------|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 35 | 27 | 0 | 0 | 0 | 0 | 24 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 13 | 0 | 0 | 12 | 0 | 32 | 0 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR NOPR 2 | 9 | 0 | 33 | 0 | 39 | 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 | 25 | 0 | 6 | 33 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 20 | 14 | 43 | 48 | 26 | 29 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR NOPR 2 | 32 | 0 | 2 | 54 | 25 | 12 | 25 |

| Product Type | RSWHOEPFDPLRMNCDF | RSWHOEPNCDF | SPHRTASCNSNCDF | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF | - |
|--------------|-------------------|-------------|----------------|-----------|--------------|------------|---|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_NOPM_2 | 0 | 3 | 0 | 0 | 0 | 0 | |
| SIR_NOPN1B | 0 | 0 | 1 | 0 | 44 | 0 | |
| SIR_NOPN_2 | 30 | 20 | 0 | 1 | 0 | 0 | |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 107 | 11 | |
| SIR_NOPR_2 | 37 | 3 | 0 | 3 | 0 | 0 | |

| Test Description Key: | | | | |
|-------------------------|---|--|--|--|
| Abbreviation | Test name | Details | | |
| BCSHNCDF | BurstCounterStep20HzNetCDF | The burst counter should be one higher with regard to the previous burst counter | | |
| IOHHMOOR | IndexOf1Hzin20HzMappingOutOfRange | The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1) | | |
| MVIOEPFDNCDF | MissingValueIntOceanExcludingPolarFD2NetCDF | The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees | | |
| MVIOEPNCDF | MissingValueIntOceanExcludingPolarNetCDF | The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees | | |
| MVIONCDF | MissingValueIntOceanNetCDF | The value should not be a 'missing value' for surface type 0 only | | |
| RBSZOPOEPFDNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | |
| RBSZOPOEPFDPLRM NCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF | The backscatter 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 |
| RSWHOEPFDNCDF | RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RSWHOEPFDPLRMNC DF | RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RSWHOEPNCDF | RangeSignificantWaveHeightOceanExcludingPolarNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| SPHRTASCNSNCDF | SPH_Rel_Time_ASC_Node_Start_v2_NetCDF | Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1) |
| SOOHHIFHD | SameOrOneHigher1HzIndexFor20HzData | The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample |
| SCSTODHRNCDF | SequenceCounterStepTODHRNetCDF | The sequence counter should be modulo 4 higher with regard to the previous sequence counter |
| SCSTODNCDF | SequenceCounterStepTODNetCDF | The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter |

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0