

QA4EO Daily Report for NOP data:

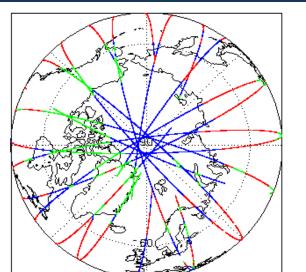
<u>03/01/2022</u>

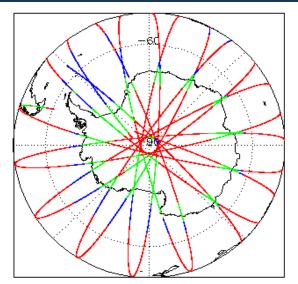
| Demont Dreductions | 05 Jan 2022 | Check | L1 & L2 |
|--|-------------------------------------|---|-------------------------|
| Report Production: 05-Jan-2022 | | Server check: science-pds.cryosat.esa.int | Nominal |
| Processor Used: | : CryoSat Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal |
| Processor useu. | | Product Software Check | Nominal |
| Data Used: Near Real Time Ocean Products (NO L1B & L2 Science Data | Near Real Time Ocean Products (NOP) | Product Format Check | Nominal |
| | L1B & L2 Science Data | Product Header Analysis | Nominal |
| | | Auxiliary Data File Usage Check | Nominal |
| | | Auxiliary Correction Error Check | See Section 5.4 |
| | | Measurement Confidence Data Check | See Section 4.5, 4.6 |
| | | Measurement Quality Flag Check | See Section 5.6 |
| | | Ocean Retracking Quality Check | See Section 5.7 |
| | | QCC Error/ Warning Check | See Section 7.1 and 7.2 |

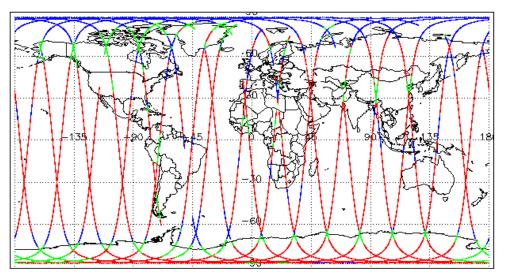
1. Overview

| Mission / Instrument News | | |
|---------------------------|-----------------|--|
| 02-Jan-2022 | None | |
| 03-Jan-2022 | None | |
| 04-Jan-2022 | Nothing planned | |

2. Global Coverage









| LINN |
|-------|
| SAR |
| SARIn |

3. Instrument Configuration

| The SIRAL instrument configuration for the day of acquisition is provided below. | | | | | |
|--|---------------------------------------|--|--|--|--|
| SIRAL instrument(s) in use: | SIRAL instrument(s) in use: SIRAL - A | | | | |

| Star Tracker(s) in use: | Star Tracker 1 |
|-------------------------|----------------|
| | |

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

0

| 4.2 L1B Product Header Analysis | | | | |
|--|---|---|--|--|
| For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. | | | | |
| L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1I OSARIn chains. A modification is required in the next release. | B IOPR and IOPN products becau | <pre>use the I1b_processing_quality_hr field is not correctly configured in the OSAR an</pre> | | |
| Number of products with errors: 0 | | | | |
| 4.3 L1B Auxilary Data File Usage Check | | | | |
| Each product is checked for missing Data Set Descriptors with respect to a pre | e-determined baseline and also to | check the validity of Auxiliary Data Files is correct. | | |
| Dynamic Atmospheric Correction: The DAC is missing in all products becau | se the auxiliary files required are | not available in time for processing. This known and expected behaviour. | | |
| Number of products with errors: 0 | | | | |
| 4.4 L1B Auxiliary Correction Error Check | | | | |
| CryoSat L1B data includes a correction error flag for each measurement recor | d. The bit value of this flag indica | es 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 | ag indicates any problems when set. | | |
| Attitude Correction Missing: This flag is currently set in error for NOPR pro- traction Missing: This flag is currently set in error for NOPR pro- tractional set in error for NOPR pro- set in error for NOPR pro- set in error for NOPR pro- tractional set in error for NOPR pro- tractional set in error for NOPR pro- set in error for NOPR pro- tractional set in error for NOPR pro- tractional set in error for NOPR pro- set in error for NOP | | | | |
| Number of products with errors: 0 | auto auto lo a consiguration icoo | | | |
| | | | | |
| 4.6 L1B Waveform Group Data Check | | | | |
| | | | | |
| • | I. The bit value of this flag indicat | es any problems when set. | | |
| CryoSat L1B data includes a waveform data flag for each measurement record | - | es any problems when set. | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this | - | es any problems when set. | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this lumber of products with errors: 13 | - | es any problems when set. Description | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product | is to be expected. | | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 | is to be expected. | Description | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 | is to be expected. Test Failed Loss of Echo | Description The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Humber of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 | is to be expected. Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T143124_20220103T143534_C001 | is to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T143124_20220103T143534_C001 CS_OFFL_SIR_NOPM1B_20220103T000724_20220103T000843_C001 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T000724_20220103T000843_C001 CS_OFFL_SIR_NOPN1B_20220103T000724_20220103T000843_C001 CS_OFFL_SIR_NOPN1B_20220103T055452_20220103T055615_C001 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 Source 13 Source< | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 13 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 14 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 14 CS_OFFL_SIR_NOPM1B_20220103T045452_20220103T000843_C001 15 CS_OFFL_SIR_NOPN1B_20220103T055452_20220103T055615_C001 15 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 15 CS_OFFL_SIR_NOPN1B_20220103T131154_20220103T131409_C001 14 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 13 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T08432_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T08432_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T08432_C001 13 CS_OFFL_SIR_NOPM1B_20220103T000724_20220103T000843_C001 14 CS_OFFL_SIR_NOPN1B_20220103T055452_20220103T055615_C001 13 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 13 CS_OFFL_SIR_NOPN1B_20220103T131154_20220103T131409_C001 14 CS_OFFL_SIR_NOPN1B_20220103T037200624_20220103T200747_C001 14 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T143124_20220103T143534_C001 CS_OFFL_SIR_NOPM1B_20220103T0455452_20220103T055615_C001 CS_OFFL_SIR_NOPN1B_20220103T055452_20220103T055615_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T131154_20220103T131409_C001 CS_OFFL_SIR_NOPN1B_20220103T200624_20220103T200747_C001 CS_OFFL_SIR_NOPN1B_20220103T231320_2020103T231703_C001 | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T000724_20220103T00843_C001 CS_OFFL_SIR_NOPN1B_20220103T055452_20220103T055615_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T031131154_20220103T1200747_C001 CS_OFFL_SIR_NOPN1B_20220103T231320_20220103T231703_C001 CS_OFFL_SIR_NOPN1B_20220103T231320_20220103T231703_C001 CS_OFFL_SIR_NOPN1B_20220103T231320_20220103T231703_C001 | Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 13 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 13 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 14 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T0843_C001 15 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T055615_C001 15 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 15 CS_OFFL_SIR_NOPN1B_20220103T131154_20220103T131409_C001 15 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T231703_C001 15 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T025646_C001 15 CS_OFFL_SIR_NOPR1B_20220103T025410_20220103T134321_C001 15 | Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 Source 13 Product 13 Source 14 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPN1B_20220103T000724_20220103T000843_C001 CS_OFFL_SIR_NOPN1B_20220103T055452_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T131154_20220103T0200747_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T025646_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T03134321_C001 CS_OFFL_SIR_NOPR1B_2022 | Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T0843_C001 CS_OFFL_SIR_NOPM1B_20220103T000724_20220103T050843_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T200747_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T025646_C001 CS_OFFL_SIR_NOPR1B_20220103T181621_20220103T181809_C001 CS_OFFL_SIR_NOPR1B_20220103T181621_20220103T181809_C001 | Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | | |
| CryoSat L1B data includes a waveform data flag for each measurement record > Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product 13 CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T080843_C001 CS_OFFL_SIR_NOPM1B_20220103T055452_20220103T055615_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T03131154_20220103T131409_C001 CS_OFFL_SIR_NOPN1B_20220103T231320_20220103T231703_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T025646_C001 CS_OFFL_SIR_NOPR1B_20220103T131412_20220103T134321_C001 CS_OFFL_SIR_NOPR1B_20220103T134142_20220103T134321_C001 CS_OFFL_SIR_NOPR1B_20220103T134142_20220103T134321_C001 | Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | | |
| CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this Number of products with errors: 13 Product CS_OFFL_SIR_NOPM1B_20220103T011616_20220103T012538_C001 CS_OFFL_SIR_NOPM1B_20220103T063305_20220103T063432_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081210_20220103T081427_C001 CS_OFFL_SIR_NOPM1B_20220103T081220_2020103T0843_C001 CS_OFFL_SIR_NOPM1B_20220103T000724_20220103T05615_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T095551_C001 CS_OFFL_SIR_NOPN1B_20220103T095329_20220103T09747_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T025646_C001 CS_OFFL_SIR_NOPN1B_20220103T025410_20220103T025646_C001 CS_OFFL_SIR_NOPR1B_20220103T181621_20220103T181809_C001 CS_OFFL_SIR_NOPR1B_20220103T181621_20220103T181809_C001 | is to be expected. Test Failed Loss of Echo Devel 2 Data Quit | Description The tracking echo is missing for one or more records The tracking echo | | |

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. 0

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

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:

45

| Desidual | Test Failed | Description |
|--|---|---|
| Product CS_OFFL_SIR_NOPM_2_20220103T011616_20220103T012538_C001 | Mean Dynamic Topography (1) | Description There is an error with the Mean Dynamic Topography height for one or more records |
| CS_OFFL_SIR_NOPN_2_20220103T000333_20220103T000510_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_20220103T004642_20220103T004951_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_20220103T014244_20220103T014351_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_20220103T022547_20220103T022750_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_20220103T032159_20220103T032747_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_20220103T050217_20220103T050741_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_20220103T054441_20220103T054601_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_20220103T072431_20220103T072757_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_20220103T082313_20220103T082540_C001 | Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with 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_20220103T090337_20220103T090658_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_20220103T091215_20220103T091338_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_20220103T095329_20220103T095551_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_20220103T105108_20220103T105151_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_20220103T113349_20220103T113454_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_20220103T122813_20220103T123013_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_20220103T131154_20220103T131409_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_20220103T144732_20220103T145245_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_20220103T154725_20220103T154947_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_20220103T162830_20220103T163109_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_20220103T180333_20220103T180802_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_20220103T185700_20220103T185824_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_20220103T190623_20220103T190735_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_20220103T194545_20220103T194729_C001 | Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with 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_20220103T204313_20220103T204616_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_20220103T221629_20220103T221926_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_20220103T222215_20220103T222654_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_20220103T231320_20220103T231703_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_20220103T235653_20220103T235928_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_20220102T235621_20220103T000200_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_20220103T000201_20220103T000333_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_20220103T004446_20220103T004642_C001 | Mean Sea Surface (1) | There is an error with the MSS height (solution 1) for one or more records |
| CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_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_20220103T013748_20220103T014244_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_20220103T031619_20220103T032159_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_20220103T045717_20220103T050216_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_20220103T063432_20220103T064417_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_20220103T081428_20220103T082312_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_20220103T095551_20220103T100334_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_20220103T113455_20220103T114208_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_20220103T124941_20220103T125155_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_20220103T131410_20220103T132100_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_20220103T145245_20220103T145906_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_20220103T163109_20220103T164017_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_20220103T180803_20220103T181544_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:

Product

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

Test Failed

Description

> 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.

78

0

Number of products with errors:

| Product | Test Failed | Description |
|---|--|--|
| CS_OFFL_SIR_NOPM_2_20220103T000511_20220103T000724_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_20220103T000859_20220103T002609_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_20220103T002802_20220103T004222_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_20220103T004951_20220103T005157_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_20220103T005253_20220103T005659_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_20220103T005848_20220103T011221_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_20220103T011341_20220103T011414_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_20220103T011616_20220103T012538_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_20220103T012818_20220103T012824_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_20220103T015413_20220103T020503_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_20220103T021035_20220103T021914_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_20220103T021931_20220103T022457_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_20220103T022751_20220103T023602_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_20220103T023821_20220103T025410_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_20220103T033702_20220103T040407_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_20220103T040919_20220103T041439_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_20220103T041722_20220103T044232_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_20220103T051531_20220103T054203_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_20220103T054601_20220103T054657_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_20220103T054847_20220103T055452_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_20220103T055623_20220103T062440_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_20220103T063305_20220103T063432_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_20220103T064805_20220103T072134_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_20220103T072757_20220103T073325_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_20220103T073526_20220103T074116_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_20220103T082740_20220103T083608_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_20220103T083844_20220103T090109_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_20220103T090805_20220103T091215_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_20220103T091419_20220103T093353_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_20220103T100601_20220103T103936_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_20220103T104720_20220103T105108_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_20220103T105803_20220103T112933_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_20220103T114930_20220103T115639_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_20220103T120121_20220103T120332_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_20220103T120442_20220103T121857_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_20220103T122043_20220103T122600_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_20220103T122635_20220103T122813_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_20220103T125349_20220103T130357_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_20220103T133118_20220103T133906_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_20220103T134321_20220103T135747_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_20220103T140010_20220103T140512_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| | 1 | |

| CS_OFFL_SIR_NOPM_2_20220103T141346_20220103T141450_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_20220103T141959_20220103T142612_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_20220103T143124_20220103T143534_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_20220103T143817_20220103T144405_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_20220103T151517_20220103T153717_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_20220103T154037_20220103T154430_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_20220103T155046_20220103T161451_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_20220103T165125_20220103T171646_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_20220103T171822_20220103T172345_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_20220103T173046_20220103T180332_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_20220103T182720_20220103T184657_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_20220103T185014_20220103T185614_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_20220103T185824_20220103T190623_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_20220103T191010_20220103T194330_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_20220103T201216_20220103T201218_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_20220103T202505_20220103T203551_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_20220103T203758_20220103T204313_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_20220103T204856_20220103T211127_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_20220103T211412_20220103T212350_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_20220103T213510_20220103T213554_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_20220103T213706_20220103T213916_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_20220103T214814_20220103T215212_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_20220103T215415_20220103T220018_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_20220103T220206_20220103T221331_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_20220103T221936_20220103T222215_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_20220103T222851_20220103T225853_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. |
| | 1 | • |

| CS_OFFL_SIR_NOPM_2_20220103T230001_20220103T230134_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_20220103T231813_20220103T234950_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_20220103T082608_20220103T082659_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_20220103T154445_20220103T154451_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_20220103T235653_20220103T235928_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_20220102T235621_20220103T000200_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_20220103T022457_20220103T022547_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_20220103T045550_20220103T045653_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_20220103T082659_20220103T082740_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_20220103T100437_20220103T100601_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_20220103T114429_20220103T114505_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 (20Hz PLRM)

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

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

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

87

Number of products with errors:

| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_NOPN_2_20220103T004642_20220103T004951_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_20220103T005700_20220103T005836_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_20220103T012538_20220103T012759_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_20220103T014727_20220103T014753_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_20220103T020503_20220103T021034_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_20220103T023602_20220103T023750_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_20220103T032159_20220103T032747_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_20220103T040521_20220103T040638_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_20220103T044514_20220103T044604_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_20220103T045522_20220103T045550_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_20220103T050217_20220103T050741_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_20220103T054441_20220103T054601_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. |

| | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags |
|---|---|--|
| CS_OFFL_SIR_NOPN_2_20220103T055452_20220103T055615_C001 | Altimeter Range and Backscatter Quality PLRM | and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_NOPN_2_20220103T064417_20220103T064805_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_20220103T072431_20220103T072757_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_20220103T082313_20220103T082540_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_20220103T090337_20220103T090658_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_20220103T091215_20220103T091338_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_20220103T093354_20220103T093720_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_20220103T095329_20220103T095551_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_20220103T104042_20220103T104226_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_20220103T130913_20220103T130934_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_20220103T131154_20220103T131409_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_20220103T132819_20220103T133118_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_20220103T135822_20220103T140010_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_20220103T141450_20220103T141646_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_20220103T141728_20220103T141959_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_20220103T142612_20220103T142640_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_20220103T144732_20220103T145245_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_20220103T153729_20220103T154037_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_20220103T154725_20220103T154947_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_20220103T161928_20220103T162131_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_20220103T162656_20220103T162830_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_20220103T171659_20220103T171822_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_20220103T172717_20220103T172839_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_20220103T180333_20220103T180802_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_20220103T181545_20220103T181621_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_20220103T194334_20220103T194449_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_20220103T195941_20220103T200104_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, CS_OFFL_SIR_NOPN_2_20220103T201338_20220103T201522_C001 The OCOG Range and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T201303_20220103T201522_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, CS_OFFL_SIR_NOPN_2_20220103T201803_20220103T201849_C001 The OCOG Range and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T203632_20220103T203758_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and 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, SSHA, SWH and Backscatter Quality Flags have been immer records. CS_OFFL_SIR_NOPN_2_20220103T215212_20220103T215415_C001 OCean Altimeter Range Quality PLRM, OCean Altimeter Range and Backscatter Quality FLAM, OCEA Altimeter Range and Backscatter Quality FLAM The OCEA Altimeter Range, SSHA, SWH and B | set for one or set for one or uality Flags is have been set for one or uality Flags is have been uality Flags is have been uality Flags |
|--|--|
| CS_OFFL_SIR_NOPN_2_202201031201389_202201031201849_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20220103T201803_20220103T201849_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T203632_20220103T203758_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T215212_20220103T215415_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T23120_20220103T231703_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T23120_20220103T231703_C001 OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPN_2_20220103T235653_20220103T235928_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been imore records. CS_OFFL_SIR_NOPR_2_20220103T004646_2020103T004642_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags is for one or more records. CS_OFFL_SIR_NOPR_2_20220103T013748_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags is for one or more records. CS_OFFL_SIR_NOPR_2_20220103T014446_20220103T013748_C001 | set for one or uality Flags is have been set for one or uality Flags is have been uality Flags is have been uality Flags |
| CS_OFFL_SIR_NOPN_2_202201031201803_202201031201849_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20220103T203632_20220103T203758_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_NOPN_2_20220103T215212_20220103T215415_C001 OCOG Altimeter Range Quality PLRM, OCOG The OCCOG Range and Backscatter Quality Flags set for one or more records. CS_OFFL_SIR_NOPN_2_20220103T215212_20220103T215415_C001 OCOG Altimeter Range, Quality PLRM, OCOG The OCCOG Range and Backscatter Quality Flags have been in more records. CS_OFFL_SIR_NOPN_2_20220103T231320_20220103T231703_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been in more records. The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been in more records. CS_OFFL_SIR_NOPN_2_20220103T231320_20220103T231703_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been in more records. CS_OFFL_SIR_NOPN_2_20220103T235653_20220103T235928_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been in more records. CS_OFFL_SIR_NOPR_2_20220103T004446_20220103T004642_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been in more records. CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been in more records. CS_OFFL_SIR_NOPR_2_20220103T013748_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Rang | uality Flags is have been set for one or uality Flags is have been uality Flags is have been uality Flags uality Flags |
| CS_OFFL_SIR_NOPN_2_20220103T203632_20220103T203758_C001 and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag set for one or more records. CS_OFFL_SIR_NOPN_2_20220103T215212_20220103T215415_C001 OCOG Altimeter Range Quality PLRM, OCG Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flag set for one or more records. CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013704642_C001 OCGG Altimeter Range Quality PLRM, O | IS have been set for one or uality Flags IS have been uality Flags IS have been uality Flags |
| CS_OFFL_SIR_NOPN_2_20220103T23120_20220103T231703_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20220103T231320_20220103T231703_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality FLRM Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPN_2_20220103T037235653_20220103T037235928_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag set for one or more records. CS_OFFL_SIR_NOPR_2_20220103T004446_20220103T004642_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 Flag set for one or more records. CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality F | uality Flags is have been uality Flags is have been uality Flags |
| CS_OFFL_SIR_NOPN_2_20220103T231320_20220103T231703_C001 and Backscatter Quality PLRM, OCOG The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPN_2_20220103T235653_20220103T235928_C001 Ocean Attimeter Range, SSHA, SWH The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPN_2_20220103T235653_20220103T235928_C001 Ocean Attimeter Range, SSHA, SWH The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T004446_20220103T004642_C001 Ocean Attimeter Range, SSHA, SWH The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_C001 Ocean Attimeter Range, SSHA, SWH The OCOG Range and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Ocean Attimeter Range, SSHA, SWH The OCOG Range and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Ocean Attimeter Range, SSHA, SWH The OCOG Range and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Ocean Attimeter Range, SSHA, SWH The OCOG Range and Backscatter Quality Flag | uality Flags is have been uality Flags |
| CS_OFFL_SIR_NOPN_2_20220103T235653_20220103T235928_C001 and Backscatter Quality PLRM, OCOG The OCGAI futimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T004446_20220103T004642_C001 Cean Altimeter Range, SSHA, SWH The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T004446_20220103T004642_C001 Cean Altimeter Range, SSHA, SWH The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_C001 CCOG Altimeter Range Quality PLRM, OCOG The OCCGA Range and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013748_2002 OCCGA Altimeter Range, SSHA, SWH The OCCGA Range and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Occean Altimeter Range, SSHA, SWH The OCCGA Range and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Occean Altimeter Range, SSHA, SWH The OCCGA Range and Backscatter Quality Flag | uality Flags |
| CS_OFFL_SIR_NOPR_2_20220103T004446_20220103T004642_C001 and Backscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been to compare records. CS_OFFL_SIR_NOPR_2_20220103T013603_20220103T013748_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been to compare records. The OCOG Range and Backscatter Quality Flags have been to compare records. CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, Altimeter Range, Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, Altimeter Range, Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, Altita Backscatter Quality PLRM, Altimeter Range, Al | |
| CS_OFFL_SIR_NOPR_2_202201031013003_202201031013746_C001 OCOG Backscatter Quality more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag thimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flag | |
| CS_OFFL_SIR_NOPR_2_20220103T013748_20220103T014244_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flag | set for one or |
| PLRM set for one or more records. | |
| CS_OFFL_SIR_NOPR_2_20220103T014544_20220103T014727_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag set for one or more records. | |
| CS_OFFL_SIR_NOPR_2_20220103T014754_20220103T015022_C001 CS_OFFL_SIR_NOPR_2_20220103T014754_20220103T01402 CS_OFFL_SIR_NOPR_2_20220103T014754_2022001 CS_OFFL_SIR_NOPR_2_20220103T014754_2022001 CS_OFFL_SIR_NOPR_2_20220103T014754_2022001 CS_OFFL_SIR_NOPR_2_20220103T014754_202200 CS_OFFL_SIR_NOPR_2_20220103T014754_202200 CS_OFFL_SIR_NOPR_2_20220103T014754_202200 CS_OFFL_SIR_NOPR_2_20220103T014754_202200 CS_OFFL_SIR_NOPR_2_20220103T014754_202200 CS_OFFL_SIR_NOPR_2_202200 CS_OFFL_SIR_NOPR_2_202200 CS_OFFL_SIR_NOPR_2_20220 CS_OFFL_SIR_NOPR_2_2020 CS_OFFL_SIR_NOPR_2_2020 CS_OFFL_SIR_NOP CS_O | |
| CS_OFFL_SIR_NOPR_2_20220103T015149_20220103T015412_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been more records. | set for one or |
| CS_OFFL_SIR_NOPR_2_20220103T025649_20220103T025654_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been more records. | set for one or |
| CS_OFFL_SIR_NOPR_2_20220103T031619_20220103T032159_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flag set for one or more records. | |
| CS_OFFL_SIR_NOPR_2_20220103T032747_20220103T033008_C001 CS_OFFL_SIR_NOPR_2_20220103T0320747_20220103T033008_C001 CS_OFFL_SIR_NOPR_2_20220103T0320747_20220103T0320747_20220103T0320747_20220103T0320747_20220103T0320747_20220103T0320747_20220103T0320747_20220747_20220103T0320747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_20220747_2022747_20220747_2022747_2022747_2022747_2022747_2022747_2022747_2022747_2022747_202747_2022747_2022747_202747_20747_202747_20 | |
| CS_OFFL_SIR_NOPR_2_20220103T040408_20220103T040521_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range and Backscatter Quality PLRM and the OCOG Altimeter Range and Backscatter Quality Flag | |
| CS_OFFL_SIR_NOPR_2_20220103T045550_20220103T045653_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flag PLRM | |
| CS_OFFL_SIR_NOPR_2_20220103T045717_20220103T050216_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flag and Flag | |
| CS_OFFL_SIR_NOPR_2_20220103T054203_20220103T054440_C001 Ocean Altimeter Range, SSHA, SWH And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flag PLRM | |
| CS_OFFL_SIR_NOPR_2_20220103T063432_20220103T064417_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 Flag | |
| CS_OFFL_SIR_NOPR_2_20220103T080136_20220103T080509_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been more records. | set for one or |
| CS_OFFL_SIR_NOPR_2_20220103T080805_20220103T081052_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been more records. | set for one or |
| CS_OFFL_SIR_NOPR_2_20220103T081428_20220103T082312_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality set for one or more records. | |
| CS_OFFL_SIR_NOPR_2_20220103T082541_20220103T082608_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been more records. | set for one or |
| CS_OFFL_SIR_NOPR_2_20220103T091339_20220103T091419_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag set for one or more records. | |

| CS_OFFL_SIR_NOPR_2_20220103T095551_20220103T100334_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_20220103T100437_20220103T100601_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_20220103T105223_20220103T105505_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_20220103T113455_20220103T114208_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_20220103T123013_20220103T123620_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_20220103T124941_20220103T125155_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_20220103T130357_20220103T130829_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_20220103T130934_20220103T131153_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_20220103T131410_20220103T132100_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_20220103T144528_20220103T144732_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_20220103T145245_20220103T145906_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_20220103T163109_20220103T164017_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_20220103T180803_20220103T181544_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_20220103T190736_20220103T191010_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_20220103T194330_20220103T194334_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_20220103T195909_20220103T195941_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_20220103T202211_20220103T202505_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_20220103T212351_20220103T212501_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_20220103T213916_20220103T214500_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_20220103T221331_20220103T221629_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_20220103T230134_20220103T230313_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_20220103T230316_20220103T230335_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_20220103T234951_20220103T235653_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| L2 Quality Flags (1 Hz & 1Hz PLRM) | | |

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

194

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

Number of products with errors:

| 5.7 L2 Ocean Retracking Quality Check | |
|---------------------------------------|--|
|---------------------------------------|--|

L2 Retracking Flags (20Hz)

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

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

1751

59

144

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

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 | 209 | 209 | 3 | 206 | 0 |
| SIR_NOPR1B | 108 | 108 | 0 | 108 | 0 |
| SIR_NOPN1B | 101 | 101 | 0 | 101 | 0 |
| SIR_NOPM_2 | 209 | 209 | 157 | 52 | 0 |
| SIR_NOPR_2 | 108 | 108 | 27 | 78 | 3 |
| SIR_NOPN_2 | 101 | 101 | 42 | 58 | 1 |

7.1 QCC Errors

| Number of QCC | C reports with er | rors: | 8 | | | | | | | | |
|---------------|-------------------|-------|------------|----|--------------|----------------|---------------|---|---|---|---|
| | | | | | Total number | of occurrences | of each error | | | | |
| Product Type | RLOBOPNCDF | RL | RLOBOPNCDF | RL | - | - | - | - | - | - | - |
| SIR_NOPN_2 | 1 | 1 | 1 | 1 | | | | | | | |
| SIR_NOPR_2 | 3 | 3 | 3 | 3 | | | | | | | |

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

7.2 QCC Warnings

Number of QCC reports with warnings

| Total number of occurrences of each warning | | | | | | | |
|---|---------------|---------------|-----------------|-------------------|--------------------|------------------|--------------------|
| Product Type | BCSHNCDF | IOHHMOOR | MVIOEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNCD |
| SIR_NOPM1B | 206 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 0 | 41 | 41 | 0 | 35 | 0 |
| SIR_NOPN1B | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 1 | 8 | 38 | 3 | 28 | 26 |
| SIR_NOPR1B | 104 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 0 | 3 | 31 | 58 | 0 | 21 | 19 |
| | | | | | | | |
| Product Type | RBSZOPOEPNCDF | RNELPOTONCDF | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARNC | RPEPOPFDPLRMSINNCD | RPEPOPFDSARNCDF | RPEPOPFDSINNCDF |
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 25 | 0 | 36 | 0 | 0 | 0 | 0 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 16 | 1 | 0 | 0 | 25 | 0 | 36 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 10 | 1 | 0 | 53 | 0 | 57 | 0 |
| | | | | T | r | r | |
| Product Type | RPEPOPLRMNCDF | RPEPOPSARNCDF | RPEPOPSINNCDF | RSSBCONCDF | RSSHAOFDNCDF | RSSHAOFDPLRMNCDF | RSSHAONCDF |
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 28 | 0 | 0 | 7 | 24 | 0 | 3 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 0 | 33 | 16 | 40 | 50 | 23 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 0 | 51 | 0 | 2 | 56 | 31 | 10 |

| Due due 4 True e | RSWHOEPFDNCDF | RSWHOEPFDPLRMNCDF | DOWNOEDNODE | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF | |
|------------------|---------------|--------------------|-------------|-----------|--------------|------------|---|
| Product Type | RSWHOEPFDNCDF | RSWHOEPFDPLRWINCDF | RSWHOEPNEDF | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF | - |
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_NOPM_2 | 32 | 0 | 3 | 0 | 0 | 0 | |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 44 | 0 | |
| SIR_NOPN_2 | 24 | 29 | 12 | 1 | 0 | 0 | |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 108 | 8 | |
| SIR NOPR 2 | 38 | 49 | 2 | 4 | 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 | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RBSZOPOEPNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RNELPOTONCDF | RangeNELPOceanTideOceanNetCDF | The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean |
| RPEPOPFDLRMNCDF | RangePeakinessExcludingPolarOPFD2LRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDPLRMSAR | RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| | RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDSARNCDF | RangePeakinessExcludingPolarOPFD2SARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDSINNCDF | RangePeakinessExcludingPolarOPFD2SINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |

| RPEPOPLRMNCDF | RangePeakinessExcludingPolarOPLRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
|-----------------|--|---|
| RPEPOPSARNCDF | RangePeakinessExcludingPolarOPSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPSINNCDF | RangePeakinessExcludingPolarOPSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RSSBCONCDF | RangeSeaStateBiasCorrectionOceanNetCDF | The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean |
| RSSHAOFDNCDF | RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| RSSHAOFDPLRMNCD | RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| 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 | RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| | RangeSignificantWaveHeightOceanExcludingPolarNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| SOOHHIFHD | SameOrOneHigher1HzIndexFor20HzData | The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample |
| SCSTODHRNCDF | SequenceCounterStepTODHRNetCDF | The sequence counter should be modulo 4 higher with regard to the previous sequence counter |
| SCSTODNCDF | SequenceCounterStepTODNetCDF | The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter |
| | | |

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0