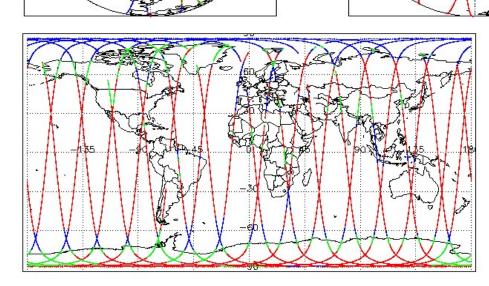


QA4EO Daily Report for NOP data:

<u>01/08/2022</u>

IDEAS-QAHEO

| | | Check | L1 & L2 | |
|---|-------------------------------------|---|------------------------------|--|
| Report Production: | 04-Aug-2022 | Server check: science-pds.cryosat.esa.int | Nominal | |
| | | Server check: calval-pds.cryosat.esa.int | Nominal | |
| Processor Used: | CryoSat Ocean Processor | Product Software Check | Nominal | |
| Data Used: | Near Real Time Ocean Products (NOP) | Product Format Check | Nominal | |
| Data Used: | L1B & L2 Science Data | Product Header Analysis | Nominal | |
| | | Auxiliary Data File Usage Check | Nominal | |
| | | Auxiliary Correction Error Check | See Section 5.4 | |
| | | Measurement Confidence Data Check | See Section 4.5, 4.6 and 5.5 | |
| | | Measurement Quality Flag Check | See Section 5.6 | |
| | | Ocean Retracking Quality Check | See Section 5.7 | |
| | | QCC Error/ Warning Check | See Section 7.2 | |
| 31-Jul-2022 None 01-Aug-2022 None | 9WS | | See Section 7.2 | |
| | | 2. Global Coverage | | |



| LRM |
|-------|
| SAR |
| SARIn |

3. Instrument Configuration

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

*

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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 11b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

0

0

2

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

| Nu | mb | er i | of. | nre | Ъď | uct | IS I | wit | hε | rre | ors |
|----|----|------|-----|-----|----|-----|------|-----|----|-----|-----|

| Product | Test Failed | Description |
|---|---------------------|--|
| CS_OFFL_SIR_NOPM1B_20220801T025354_20220801T030901_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |
| CS_OFFL_SIR_NOPM1B_20220801T205702_20220801T210022_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |

4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_NOPM1B_20220801T025354_20220801T030901_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPM1B_20220801T065228_20220801T071731_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T013551_20220801T013630_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T030945_20220801T031246_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T031349_20220801T031602_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T055001_20220801T055156_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T122412_20220801T122935_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T131507_20220801T131838_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T153557_20220801T153939_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T163326_20220801T163550_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T180822_20220801T180853_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T195529_20220801T200020_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T211404_20220801T211603_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPN1B_20220801T212309_20220801T212402_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_NOPR1B_20220801T235021_20220801T235224_C001 | Loss of Echo | The tracking echo is missing for one or more records |

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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

Number of products with errors:

| Product | Test Failed Mean Dynamic Topography (1), Total | Description |
|---|---|---|
| CS_OFFL_SIR_NOPM_2_20220801T064239_20220801T064402_C001 | Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), 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 1: GOT and 2: FES) and the Non- Equilibrium Long Period Ocean Tide for one or more records |
| CS_OFFL_SIR_NOPM_2_20220801T100632_20220801T100722_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography height for one or more records |
| CS_OFFL_SIR_NOPM_2_20220801T141045_20220801T142544_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_20220801T005213_20220801T005353_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_20220801T013551_20220801T013630_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_20220801T013633_20220801T013647_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_20220801T022107_20220801T022249_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_20220801T023000_20220801T023213_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_20220801T031349_20220801T031602_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_20220801T040019_20220801T040206_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_20220801T040852_20220801T041343_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_20220801T045031_20220801T045427_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_20220801T055002_20220801T055156_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_20220801T103832_20220801T103958_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_20220801T104508_20220801T104814_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records |
| CS_OFFL_SIR_NOPN_2_20220801T121911_20220801T122203_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_20220801T122412_20220801T122935_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_20220801T131507_20220801T131838_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide | There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records |
| CS_OFFL_SIR_NOPN_2_20220801T135848_20220801T140122_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_20220801T145405_20220801T145517_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_20220801T153557_20220801T153939_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_20220801T163327_20220801T163550_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_20220801T163603_20220801T163750_C001 | Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) | There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records |
| CS_OFFL_SIR_NOPN_2_20220801T171609_20220801T171800_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_20220801T172621_20220801T172836_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_20220801T181319_20220801T181748_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_20220801T185545_20220801T185724_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_20220801T195529_20220801T200020_C001 | Total Geocentric Ocean Tide (GOT) | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records |

| CS_OFFL_SIR_NOPN_2_20220801T203544_20220801T203923_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_20220801T221510_20220801T221828_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_20220801T222341_20220801T222506_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_20220801T230601_20220801T230703_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_20220731T235749_20220801T000439_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_20220801T013648_20220801T014229_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_20220801T014245_20220801T014404_C001 | Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records |
| CS_OFFL_SIR_NOPR_2_20220801T031603_20220801T032100_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_20220801T032100_20220801T032256_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_20220801T045428_20220801T045948_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_20220801T063248_20220801T064238_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_20220801T081016_20220801T081701_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_20220801T082818_20220801T082907_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_20220801T144724_20220801T145059_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_20220801T145059_20220801T145405_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_20220801T160548_20220801T161025_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_20220801T162715_20220801T163326_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_20220801T180853_20220801T181318_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_20220801T194633_20220801T195529_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_20220801T212647_20220801T213433_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_20220801T230704_20220801T231503_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 |

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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: 2 | | |
|---|---------------------|---|
| Product | Test Failed | Description |
| CS_OFFL_SIR_NOPM_2_20220801T025353_20220801T030901_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_NOPM_2_20220801T205702_20220801T210022_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

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

Number of products with errors: 79

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_NOPM_2_20220801T000534_20220801T004040_C001 | and Backscatter Quality, OCOG Altimeter | The Ocean Altimeter Range, SSHA, SWH 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_20220801T004346_20220801T004856_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_20220801T004916_20220801T005213_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_20220801T005956_20220801T013046_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_20220801T014404_20220801T020430_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_20220801T020518_20220801T022020_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_20220801T022249_20220801T022754_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_20220801T022814_20220801T022826_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_20220801T022833_20220801T022959_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_20220801T023729_20220801T024734_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_20220801T025353_20220801T030901_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_20220801T032256_20220801T034340_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_20220801T034520_20220801T035857_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_20220801T040206_20220801T040706_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_20220801T040731_20220801T040741_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_20220801T041511_20220801T043453_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_20220801T043854_20220801T044714_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_20220801T051634_20220801T053725_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_20220801T054249_20220801T054624_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_20220801T055336_20220801T062046_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_20220801T065227_20220801T071731_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_20220801T072032_20220801T072539_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_20220801T072546_20220801T072913_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_20220801T073321_20220801T080636_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_20220801T081914_20220801T082556_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_20220801T085222_20220801T085645_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_20220801T090033_20220801T090613_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| | | |

| Disc Disc <thdisc< th=""> Disc Disc <thd< th=""><th></th><th></th><th></th></thd<></thdisc<> | | | |
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| CQ,ONT_BILLOOM_CARRENT INTERACTION INTERACT | CS_OFFL_SIR_NOPM_2_20220801T091340_20220801T094607_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Contraction Rescalation Rescalation Rescalation Rescalation C01, DRFL, DRFL, NORM 2, 20208011110042, 2022801110042, 2022801110044, 2022801110042, 2022801110044, 2022801110042, 20228011 | CS_OFFL_SIR_NOPM_2_20220801T095830_20220801T100006_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Construction Rescale Provide of an extended Construction See Advanced Design (2000) See Advanced Design (2000) The Design Advanced Design (2000) Construction See Advanced Design (2000) See Advanced Design (2000) The Design Advanced Design (2000) Construction See Advanced Design (2000) The Design Advanced Design (2000) The Design Advanced Design (2000) Construction See Advanced Design (2000) Design Advanced Design (2000) The Design Advanced Design (2000) Construction See Advanced Design (2000) Design Advanced Design (2000) The Design Advanced Design (2000) Construction Design Advanced Design (2000) Design Advanced Design (2000) The Design Advanced Design (2000) Construction Design Advanced Design (2000) Design Advanced Design (2000) The Design Advanced Design (2000) Construction Design Advanced Design (2000) Design Advanced Design (2000) Design Advanced Design (2000) Construction Design Advanced Design (2000) Design Advanced Design (2000) Design Advanced Design (2000) Construction (2000) Design Advanced Design (2000) Design Advanced Design (2000) Design Advanced Design (2000) | CS_OFFL_SIR_NOPM_2_20220801T100107_20220801T100114_C001 | | |
| CB OFFL SIR NOPH 2 30220011103405 (2001) mini Deviseting Calify Cali | CS_OFFL_SIR_NOPM_2_20220801T101044_20220801T101212_C001 | | |
| Clipper Control Clipper Contro Clipper Control Clipper Con | CS_OFFL_SIR_NOPM_2_20220801T101843_20220801T103456_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CBL_0FFL_SR_NOPL_2_D0238811119201_02238011119201_0001 CBL_0FFL_SR_NOPL_2_D0238811119201_02238011119201_0001 CBL_0FFL_SR_NOPL_2_D0238811119201_02238011119201_0001 CBL_0FFL_SR_NOPL_2_D0228811119201_02238011119201_0001 Down Almeter Range, SBL, WM and based defaulty. CDG. Almeter Range and Based control to CDG. Almeter Range, SBL, WM and based control to CDG. Almeter Range, SBL, WM and based control to CDG. Almeter Range, SBL, RW and based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW and based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW and ta State control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Almeter Range, SBL, RW Range and Based control to CDG. Al | CS_OFFL_SIR_NOPM_2_20220801T103958_20220801T104508_C001 | | |
| CH_DFIL_SIR_NOPM_2.202288011113731_20228011113781_0021 Implication of the COGA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a company of the CogA Altered Fage and Backsoffer Caulty Fage have been with a cogA Altered Fage and Backsoffer Caulty Fage have been with a cogA Altered Fage and Backsoffer Caulty Fage have been with a cogA Altered Fage and Backsoffer Caulty Fage have been with a cogA Altered Fage and Backsoffer Caulty Fage have been with a cogA Altered Fage and Backsoffer Caulty Fage have been with a cogA Altered F | CS_OFFL_SIR_NOPM_2_20220801T105201_20220801T112747_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CB: OFFL BR, NOPM 2 202208011114015 202208011114015 Decision and statistication character (Character Character | CS_OFFL_SIR_NOPM_2_20220801T113731_20220801T113929_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CE_OFFL_SIR_NOPM_2_0020801T11500_0020801T102125_0001 and Backsonthr Quality Ange have been and Backsonthr Qu | CS_OFFL_SIR_NOPM_2_20220801T114943_20220801T115416_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| 02.0 CPFL_SIR_NOPM_2_202208011135145_202208011130345_20208 and flaskscatter Quality and flaskscatter Quality The Ocean Attender Range, SSH, SYH and flaskscatter Quality Flags have been set for one more records 02.0 CPFL_SIR_NOPM_2_202208011131645_202208011133525_0011 Chean Attender Range, SSH, SYH and the OCOC Attender Range, SSH, SYH and flaskscatter Quality Flags have been set for one more records 03.0 CPFL_SIR_NOPM_2_202208011133526_002208011133525_0011 Chean Attender Range, SSH, SYH and the OCOC Attender Range, SSH, SYH and the OCOC Attender Range and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_202208011140123_02208011140021_0001 CCOC Attender Range, SSH, SYH and the OCOC Attender Range and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_202208011140123_02208011140023_0001 CCOC Attender Range, SSH, SYH and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_202208011140143_022080111440142_0020 CCOC Attender Range, SSH, SYH and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_2022080111410142_022080111440142_0020 CCOC Attender Range, SSH, SYH and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_2022080111410142_002080_0111440142_0021 CCOCA Attender Range, SSH, SYH and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_202208011146145_01202208011146044_0011 CCCA Attender Range, SSH, SYH and Backscatter Quality Flags have been set for one or more records 03.0 CPFL_SIR_NOPM_2_202208011146247_02 | CS_OFFL_SIR_NOPM_2_20220801T115500_20220801T121235_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CBDFFL_SIR_NOPM_2_2022801T131945_2022801T133832_001 and backscatter Quality. Code Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the COOR Alimeter Range and Backscatter Quality. Flags have been at the coor and the COOR Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the Coor Alimeter Range and Backscatter Quality. Flags have been at the Coor Alimeter Range and Backscatter Quality. Flags have been at the coor and the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have been at the coor Alimeter Range and Backscatter Quality. Flags have bee | CS_OFFL_SIR_NOPM_2_20220801T123145_20220801T130744_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| C6_OFFL_SIR_NOPM_2_20220801T133265_20220801T140221_C001 and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T140123_20220801T140321_C001 OCCG Altimeter Range Quality, OCCG Batter Cuality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T140123_20220801T140823_C001 OCCG Altimeter Range Quality, OCCG Batter Cuality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T140443_20220801T140823_C001 OCCG Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T140443_20220801T140823_C001 OCean Altimeter Range, SIA, SWH and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T140443_20220801T145769_C001 Ocean Altimeter Range, SIA, SWH and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T145769_20220801T145769_C001 OCCG Altimeter Range, SIA, SWH and Backscatter Quality Flags have been set for one or more records C6_OFFL_SIR_NOPM_2_20220801T145564_C001 OCCG Altimeter Range Quality, OCCG Batter Range and Backscatter Quality Flags have been set for one or more records C8_OFFL_SIR_NOPM_2_20220801T1545517_20220801T154524_C001 OCCGA Altimeter Range Quality, OCCG Batter Range and Backscatter Quality Flags have been set for one or more records C8_OFFL_SIR_NOPM_2_20220801T154251_202208 | CS_OFFL_SIR_NOPM_2_20220801T131945_20220801T133832_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220801T140143_20220801T140252_C001 Backscatter Quality For one or more records CS_OFFL_SIR_NOPM_2_20220801T140443_20220801T140823_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range SN4, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T141045_20220801T142544_C001 Ocean Altimeter Range, SN4, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T142740_20220801T142740_20220801T145709_C001 Ocean Altimeter Range, SN4, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T142740_20220801T145709_C001 Ocean Altimeter Range, SN4, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T146517_20220801T145644_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T145517_20220801T15627_C001 Ocean Altimeter Range, SN4, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T156240_C001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T156242_0020801T15624_0001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T156243_0021 | CS_OFFL_SIR_NOPM_2_20220801T133926_20220801T135255_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Dis_PPF_SIR_NOPM_2_202208011140445_20220801114045_2001 Backscatter Quality For one or more records CS_OFFL_SIR_NOPM_2_202208011141045_202208011142544_C001 Cosan Altimeter Range, SSHA, SWH and Backscatter Quality Fine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_202208011142746_202208011143709_C001 Cosan Altimeter Range, SSHA, SWH and Backscatter Quality Fine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_202208011145517_202208011145644_C001 Cosan Altimeter Range, SSHA, SWH and Backscatter Quality The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_202208011145517_202208011151627_C001 Cosen Altimeter Range, SSHA, SWH and Backscatter Quality The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801115429_0001 CocG Altimeter Range Quality, OCCG The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801115429_2020801115429_0001 COCG Altimeter Range Quality, OCCG The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801115429_2020801115429_0001 Cocean Altimeter Range Quality, OCCG The OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPM_2_20220801T140123_20220801T140321_C001 | | |
| CS_OFFL_SIR_NOPM_2_20220801T141045_20220801T142544_C001 and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T145517_20220801T145544_C001 OCGA Altimeter Range Quality, OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T145506_20220801T1455162_C001 Ocean Altimeter Range Quality, OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154249_C001 Ocean Altimeter Range Quality, OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154256_C001 OCGG Altimeter Range Quality, OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154276_C001 OCGG Altimeter Range Quality, OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154276_C001 OCGG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records <td>CS_OFFL_SIR_NOPM_2_20220801T140443_20220801T140823_C001</td> <td></td> <td></td> | CS_OFFL_SIR_NOPM_2_20220801T140443_20220801T140823_C001 | | |
| CS_OFFL_SIR_NOPM_2_20220801T142746_20220801T143709_C001 and Backscatter Quality. COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T145517_20220801T145644_C001 DCOG Altimeter Range Quality. OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T145506_20220801T151627_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T15593_0220801T151627_C001 OCGA Altimeter Range Quality. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T153939_0220801T154249_C001 OCGA Altimeter Range Quality. OCOG The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154726_C001 OCCGA Altimeter Range Quality. OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T16449_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T16449_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been set for on | CS_OFFL_SIR_NOPM_2_20220801T141045_20220801T142544_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220801T145906_20220801T151627_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPM_2_20220801T145906_20220801T151627_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags nave been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T145906_20220801T151627_C001 OCOG Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154249_C001 OCOG Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154726_C001 DCOG Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T160449_C001 Dcean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T160449_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T171428_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T171800_20220801T172014_C001 Ocean Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T171800_20220801T172014_C001 Ocean Attimeter Range Quality, OCOG Attimeter Range and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20220801T142746_20220801T143709_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220801T145906_20220801T151627_C001 and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154249_C001 OCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154726_C001 OCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T154726_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T160449_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T171428_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T1717426_C001 OCCG Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range and Backscatter Quality Flags have been se | CS_OFFL_SIR_NOPM_2_20220801T145517_20220801T145644_C001 | | |
| CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154256_C001 Backscatter Quality Gr one or more records CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154726_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T160449_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T1760449_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T171428_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T17800_20220801T171428_C001 OCean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T17800_20220801T172014_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172014_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172012_20220801T172621_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more re | CS_OFFL_SIR_NOPM_2_20220801T145906_20220801T151627_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220801T154/25_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T160449_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T171800_20220801T172014_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172621_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175621_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20220801T153939_20220801T154249_C001 | | |
| CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T160449_C001 and Backscatter Quality, OCOG Altimeter Range and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T171428_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality, OCOG Altimeter Range Altimeter Range and Backscatter Quality Flags have been Range Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172014_C001 OCOG Altimeter Range Quality, OCOG Records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172021_C001 OCOG Altimeter Range Quality, OCOG Records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175411_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records | CS_OFFL_SIR_NOPM_2_20220801T154251_20220801T154726_C001 | | |
| CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T171428_C001 and Backscatter Quality, OCOG Altimeter Range and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T171800_20220801T172014_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172014_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172621_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T172641_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175441_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20220801T155023_20220801T160449_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172014_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172621_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175441_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20220801T164247_20220801T171428_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_NOPM_2_20220801T17201_20001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175441_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20220801T171800_20220801T172014_C001 | | |
| CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175441_C001 and Backscatter Quality, OCOG Altimeter and the OCOG Altimeter Range and Backscatter Quality Flags have been | CS_OFFL_SIR_NOPM_2_20220801T172026_20220801T172621_C001 | | |
| | CS_OFFL_SIR_NOPM_2_20220801T173012_20220801T175441_C001 | and Backscatter Quality, OCOG Altimeter | and the OCOG Altimeter Range and Backscatter Quality Flags have been |

| CS_OFFL_SIR_NOPM_2_20220801T182551_20220801T185317_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_20220801T190012_20220801T190431_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_20220801T190920_20220801T193535_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_20220801T193539_20220801T193730_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_20220801T200020_20220801T203133_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_20220801T203924_20220801T204503_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_20220801T204813_20220801T205246_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_20220801T211207_20220801T211325_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_20220801T212402_20220801T212559_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_20220801T213840_20220801T221130_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_20220801T221829_20220801T222340_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_20220801T222851_20220801T224524_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_20220801T231503_20220801T235021_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_20220801T235608_20220801T235829_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_20220801T235835_20220802T000247_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_20220801T041349_20220801T041419_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_20220801T085916_20220801T090032_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_20220801T094843_20220801T094858_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_20220801T122412_20220801T122935_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_20220801T131507_20220801T131838_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_20220801T145644_20220801T145906_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_20220801T153351_20220801T153546_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_20220801T182327_20220801T182550_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_20220801T032100_20220801T032256_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_20220801T103457_20220801T103832_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_20220801T180722_20220801T180822_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 |
| | | |

L2 Quality Flags (20 Hz PLRM)

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

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

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

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Number of products with errors:

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_NOPN_2_20220801T004201_20220801T004346_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_20220801T005213_20220801T005353_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_20220801T013551_20220801T013630_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_20220801T023000_20220801T023213_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_20220801T030945_20220801T031246_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_20220801T045031_20220801T045427_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_20220801T050924_20220801T051021_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_20220801T051059_20220801T051440_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_20220801T054016_20220801T054249_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_20220801T062136_20220801T062650_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_20220801T065117_20220801T065227_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_20220801T071859_20220801T072032_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_20220801T090613_20220801T090703_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_20220801T094741_20220801T094818_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_20220801T100613_20220801T100631_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_20220801T121911_20220801T122203_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_20220801T122412_20220801T122935_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_20220801T130841_20220801T130935_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_20220801T131507_20220801T131838_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_20220801T140321_20220801T140443_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_20220801T140824_20220801T141003_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_20220801T145405_20220801T145517_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_20220801T145644_20220801T145906_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_20220801T153557_20220801T153939_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_20220801T161406_20220801T161730_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_20220801T164124_20220801T164247_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_20220801T181319_20220801T181748_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_20220801T181831_20220801T181952_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_20220801T185545_20220801T185724_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_20220801T190432_20220801T190723_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_20220801T195529_20220801T200020_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_20220801T212559_20220801T212646_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_20220801T221510_20220801T221828_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_20220801T224524_20220801T224837_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_20220801T235225_20220801T235608_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_20220801T004041_20220801T004201_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_20220801T005354_20220801T005956_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_20220801T013648_20220801T014229_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_20220801T022808_20220801T022814_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_20220801T023214_20220801T023729_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_20220801T025141_20220801T025353_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_20220801T034341_20220801T034520_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_20220801T041344_20220801T041348_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_20220801T044715_20220801T045007_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_20220801T055156_20220801T055336_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_20220801T063248_20220801T064238_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_20220801T073045_20220801T073321_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_20220801T080838_20220801T080851_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_20220801T081016_20220801T081701_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 |

| | OCOC Altimates Banza Quality BLBM | The OCCC Design and Deskingetter Quality Flore have been pet for any or |
|---|---|---|
| CS_OFFL_SIR_NOPR_2_20220801T082818_20220801T082907_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_20220801T085646_20220801T085915_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_20220801T090930_20220801T091340_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_20220801T100115_20220801T100444_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_20220801T100723_20220801T101044_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_20220801T103457_20220801T103832_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_20220801T104815_20220801T105201_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_20220801T113930_20220801T114943_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_20220801T121235_20220801T121910_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_20220801T122936_20220801T123145_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_20220801T130745_20220801T130840_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_20220801T135255_20220801T135847_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_20220801T144724_20220801T145059_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_20220801T160548_20220801T161025_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_20220801T161025_20220801T161126_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_20220801T162715_20220801T163326_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_20220801T163750_20220801T163849_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_20220801T180442_20220801T180705_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_20220801T180722_20220801T180822_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_20220801T185318_20220801T185545_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_20220801T190724_20220801T190919_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_20220801T203134_20220801T203543_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_20220801T204618_20220801T204813_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_20220801T213606_20220801T213643_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_20220801T221130_20220801T221510_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_20220801T222507_20220801T222851_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 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 & 1 Hz PLRM)

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

175

62

139

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

Number of products with errors:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

0

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

7. NOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_NOPM1B | 127 | 127 | 2 | 125 | 0 |
| SIR_NOPR1B | 96 | 96 | 0 | 96 | 0 |
| SIR_NOPN1B | 106 | 106 | 4 | 102 | 0 |
| SIR_NOPM_2 | 127 | 127 | 81 | 46 | 0 |
| SIR_NOPR_2 | 96 | 96 | 29 | 67 | 0 |
| SIR_NOPN_2 | 106 | 106 | 43 | 63 | 0 |

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings 1650 Total number of occurrences of each warning MVIONCDF RBSZOPOEPFDNCDF BCSHNCDF MVIOEPNCDF RBSZOPOEPFDPLRMNCD RBSZOPOEPNCDF Product Type SIR NOPM1B MVIOEPFDNCDF 125 0 SIR_NOPM_2 33 34 35 29 0 SIR_NOPN1B 102 0 0 0 0 0 0 SIR_NOPN_2 23 9 30 26 32 SIR_NOPR1B 94 0 0 0 0 0 0 SIR_NOPR_2 0 38 48 34 33 18

| Product Type | RNELPOTONCDF | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARNCD | RPEPOPFDPLRMSINNCD | RPEPOPFDSARNCDF | RPEPOPFDSINNCDF | RPEPOPLRMNCDF |
|--------------|--------------|-----------------|--------------------|--------------------|-----------------|-----------------|---------------|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 26 | 0 | 0 | 0 | 0 | 25 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 2 | 0 | 0 | 19 | 0 | 30 | 0 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 5 | 0 | 46 | 0 | 51 | 0 | 0 |

| Product Type | RPEPOPSARNCDF | RPEPOPSINNCDF | RSSBCONCDF | RSSHAOFDNCDF | RSSHAOFDPLRMNCDF | RSSHAONCDF | RSWHOEPFDNCDF |
|--------------|---------------|---------------|------------|--------------|------------------|------------|---------------|
| SIR_NOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPM_2 | 0 | 0 | 4 | 20 | 0 | 3 | 27 |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPN_2 | 0 | 21 | 17 | 43 | 51 | 35 | 28 |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIR_NOPR_2 | 45 | 0 | 1 | 57 | 35 | 9 | 44 |

| Product Type | RSWHOEPFDPLRMNCDF | RSWHOEPNCDF | SPHRTASCNSNCDF | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF | - |
|--------------|-------------------|-------------|----------------|-----------|--------------|------------|---|
| SIR_NOPM1B | 0 | 0 | 1 | 0 | 0 | 0 | |
| SIR_NOPM_2 | 0 | 4 | 1 | 0 | 0 | 0 | |
| SIR_NOPN1B | 0 | 0 | 0 | 0 | 46 | 1 | |
| SIR_NOPN_2 | 30 | 18 | 1 | 3 | 0 | 0 | |
| SIR_NOPR1B | 0 | 0 | 0 | 0 | 96 | 2 | |
| SIR NOPR 2 | 51 | 1 | 0 | 0 | 0 | 0 | |

| Test Description Key: | Vest Description Key: | | | | | | |
|-------------------------|---|---|--|--|--|--|--|
| Abbreviation | Test name | Details | | | | | |
| BCSHNCDF | BurstCounterStep20HzNetCDF | The burst counter should be one higher with regard to the previous burst counter | | | | | |
| MVIOEPFDNCDF | MissingValueIntOceanExcludingPolarFD2NetCDF | The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees | | | | | |
| MVIOEPNCDF | MissingValueIntOceanExcludingPolarNetCDF | The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees | | | | | |
| MVIONCDF | MissingValueIntOceanNetCDF | The value should not be a 'missing value' for surface type 0 only | | | | | |
| RBSZOPOEPFDNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RBSZOPOEPFDPLRM NCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RBSZOPOEPNCDF | RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF | The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees | | | | | |
| RNELPOTONCDF | RangeNELPOceanTideOceanNetCDF | The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean | | | | | |

| SCSTODNCDF | SequenceCounterStepTODNetCDF | The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter |
|-------------------------|--|---|
| SCSTODHRNCDF | SequenceCounterStepTODHRNetCDF | The sequence counter should be modulo 4 higher with regard to the previous sequence counter |
| SOOHHIFHD | SameOrOneHigher1HzIndexFor20HzData | The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample |
| SPHRTASCNSNCDF | SPH_Rel_Time_ASC_Node_Start_v2_NetCDF | Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1) |
| RSWHOEPNCDF | RangeSignificantWaveHeightOceanExcludingPolarNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RSWHOEPFDPLRMNC DF | RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF | The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| 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 |
| RSSHAONCDF | RangeSeaSurfaceHeightAnomalyOceanNetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| RSSHAOFDPLRMNCD F | RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| RSSHAOFDNCDF | RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF | The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean |
| RSSBCONCDF | RangeSeaStateBiasCorrectionOceanNetCDF | The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean |
| RPEPOPSINNCDF | RangePeakinessExcludingPolarOPSINNetCDF | The Peakiness should be between 0 and 90000 (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 |
| RPEPOPLRMNCDF | RangePeakinessExcludingPolarOPLRMNetCDF | The Peakiness should be between 0 and 6400 (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 |
| RPEPOPFDSARNCDF | RangePeakinessExcludingPolarOPFD2SARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDPLRMSINN CDF | RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF | The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDPLRMSAR NCDF | RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF | The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |
| RPEPOPFDLRMNCDF | RangePeakinessExcludingPolarOPFD2LRMNetCDF | The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees |

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0