

QA4EO Daily Report for GOP data:

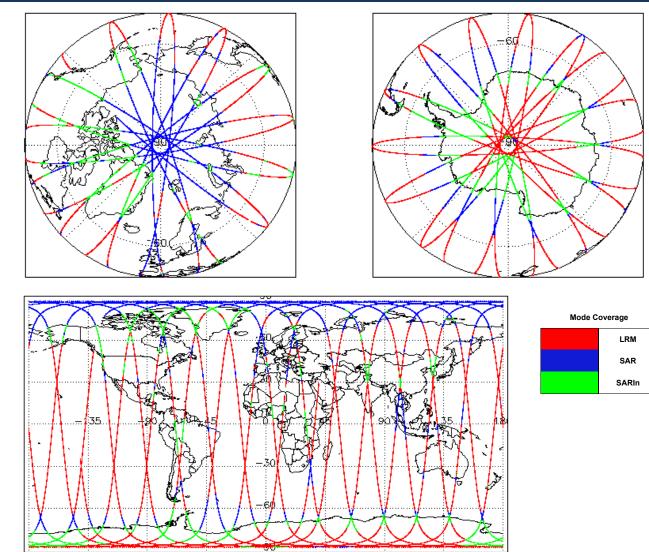
25/05/2020

| an art Draduction. | 06 Jun 2020 | Check | L1 & L2 | P2P |
|--------------------|---|--|------------------------------|-----------------|
| Report Production: | 26-Jun-2020 | Server check: science-pds.cryosat.esa.int | Nominal | Nominal |
| Processor Used: | Cruce Set Occore Dresses | Server check: calval-pds.cryosat.esa.int | Nominal | Nominal |
| Processor Usea: | CryoSat Ocean Processor | Product Software Check | Nominal | Nominal |
| Dete Head | Data Used: Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data | Product Format Check | Nominal | Nominal |
| Data Used: | | Product Header Analysis | Nominal | Nominal |
| | | Auxiliary Data File Usage Check | Nominal | Nominal |
| | | Auxiliary Correction Error Check | See Section 5.4 | See Section 6.4 |
| | | Measurement Confidence Data Check | See Section 4.5, 4.6 and 5.5 | See Section 6.5 |
| | | Range, SWH & Backscatter Measurement Check | See Section 5.6 | See Section 6.6 |
| | | Ocean Retracking Quality Check | See Section 5.7 | See Section 6.7 |
| | | QCC Error/ Warning Check | See Section 7.2 | See Section 7.2 |

1. Overview

| Mission / Instrument News | | |
|---------------------------|-----------------|--|
| 24-May-2020 | None | |
| 25-May-2020 | None | |
| 26-May-2020 | Nothing planned | |





3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

| 4.2 L1B Product Header Analysis | | | |
|---|---|---|--|
| or all products, a series of pre-defined checks are performed on the MPH an | d SPH in order to identify any incons | sistencies and/or errors raised by the ground-segment processing chain. | |
| L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release. | | | |
| Number of products with errors: 0 | | | |
| 1.3 L1B Auxilary Data File Usage Check | | | |
| Each product is checked for missing Data Set Descriptors with respect to a pr | e-determined baseline and also to ch | hack the validity of Auviliary Data Files is correct | |
| Number of products with errors: 0 | e-determined baseline and also to ci | | |
| · | | | |
| 4.4 L1B Auxiliary Correction Error Check | | | |
| CryoSat L1B data includes a correction error flag for each measurement recor | d. The bit value of this flag indicates | s any problems when set. | |
| Number of products with errors: 0 | | | |
| 4.5 L1B Measurement Confidence Data Check | | | |
| CryoSat L1B data includes a measurement confidence flag for each measurer | ment record. The bit value of this flag | g indicates any problems when set. | |
| Attitude Correction Missing: This flag is currently set in error for GOPR proc | ducts due to a configuration issue. Th | his is being investigated and will be updated in the next SW update. | |
| Number of products with errors: 3 | - | | |
| Product | Test Failed | Description | |
| CS_OFFL_SIR_GOPM1B_20200525T063125_20200525T064358_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more | |
| CS_OFFL_SIR_GOPM1B_20200525T064838_20200525T064947_C001 | Power scaling error | records There is an error in the scaling of the L1B waveform for one or more | |
| | | records There is an error in the scaling of the L1B waveform for one or more | |
| S_OFFL_SIR_GOPM1B_20200525T094719_20200525T095112_C001 | Power scaling error | records | |
| 4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement recorn .oss of Echo Flag: This flag is currently set for some products over land, but | - | any problems when set. | |
| CryoSat L1B data includes a waveform data flag for each measurement record | - | any problems when set. | |
| CryoSat L1B data includes a waveform data flag for each measurement record | - | any problems when set. Description | |
| CryoSat L1B data includes a waveform data flag for each measurement recorn coss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21 | this is to be expected. | | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21 Product | this is to be expected. | Description | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but lumber of products with errors: 21 Product CS_OFFL_SIR_GOPN1B_20200525T044239_20200525T044654_C001 | this is to be expected. Test Failed Loss of Echo | Description The tracking echo is missing for one or more records | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but humber of products with errors: 21 Product CS_OFFL_SIR_GOPN1B_20200525T044239_20200525T044654_C001 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 | this is to be expected. Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21 Product CS_OFFL_SIR_GOPN1B_20200525T044239_20200525T044654_C001 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 CS_OFFL_SIR_GOPN1B_20200525T080054_20200525T080316_C001 | this is to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
| CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for some products over land, but Aumber of products with errors: 21 Product CS_OFFL_SIR_GOPN1B_20200525T044239_20200525T044654_C001 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 CS_OFFL_SIR_GOPN1B_20200525T080054_20200525T080316_C001 CS_OFFL_SIR_GOPN1B_20200525T094033_20200525T094511_C001 | this is to be expected. Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
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| CryoSat L1B data includes a waveform data flag for each measurement recomposed of the products over land, but the products with errors: 21 Product CS_OFFL_SIR_GOPN1B_20200525T044239_20200525T044654_C001 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 CS_OFFL_SIR_GOPN1B_20200525T080054_20200525T080316_C001 CS_OFFL_SIR_GOPN1B_20200525T094033_20200525T094511_C001 CS_OFFL_SIR_GOPN1B_20200525T103154_20200525T103444_C001 CS_OFFL_SIR_GOPN1B_20200525T124123_20200525T124329_C001 | this is to be expected. Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
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| CryoSat L1B data includes a waveform data flag for each measurement recomposed of the products over land, but the products with errors: 21 Product 21 Source 21 Product 21 Source 2000525T0644239_20200525T064654_C001 Source 21 Source 2000525T062427_20200525T080316_C001 Source 25 Source 2000525T094033_20200525T094511_C001 Source 25 Source 2000525T103154_20200525T103444_C001 Source 25 Source 2000525T124123_20200525T124329_C001 Source 25 Source 2 | this is to be expected. Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
| CryoSat L1B data includes a waveform data flag for each measurement recornors of Echo Flag: This flag is currently set for some products over land, but the set of products over land, but the set over lan | this is to be expected. Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
| CryoSat L1B data includes a waveform data flag for each measurement recomposed of the products over land, but the products with errors: 21 Product 21 Sonorth_SIR_GOPN1B_20200525T044239_20200525T044654_C001 23 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 23 CS_OFFL_SIR_GOPN1B_20200525T0620525T080316_C001 23 CS_OFFL_SIR_GOPN1B_20200525T094033_20200525T094511_C001 25 CS_OFFL_SIR_GOPN1B_20200525T103154_20200525T103444_C001 25 CS_OFFL_SIR_GOPN1B_20200525T124123_20200525T124329_C001 25 CS_OFFL_SIR_GOPN1B_20200525T125044_20200525T125132_C001 25 CS_OFFL_SIR_GOPN1B_20200525T130404_20200525T130546_C001 25 CS_OFFL_SIR_GOPN1B_20200525T161227_20200525T1613455_C001 25 CS_OFFL_SIR_GOPN1B_20200525T175126_20200525T175257_C001 25 CS_OFFL_SIR_GOPN1B_20200525T175126_20200525T185157_C001 25 | this is to be expected. Test Failed Loss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records | |
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| CryoSat L1B data includes a waveform data flag for each measurement recomposed of the products with errors: 21 Product 21 Product 21 StropSat L1B, GOPN1B_20200525T044239_20200525T044654_C001 25 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 25 CS_OFFL_SIR_GOPN1B_20200525T080054_20200525T094511_C001 25 CS_OFFL_SIR_GOPN1B_20200525T103154_20200525T103444_C001 25 CS_OFFL_SIR_GOPN1B_20200525T124123_20200525T124329_C001 25 CS_OFFL_SIR_GOPN1B_20200525T125044_20200525T125132_C001 25 CS_OFFL_SIR_GOPN1B_20200525T130404_20200525T130546_C001 25 CS_OFFL_SIR_GOPN1B_20200525T130404_20200525T161345_C001 25 CS_OFFL_SIR_GOPN1B_20200525T175126_20200525T175126_2001 25 CS_OFFL_SIR_GOPN1B_20200525T192742_20200525T193146_C001 25 CS_OFFL_SIR_GOPN1B_20200525T102742_20200525T061952_C001 25 CS_OFFL_SIR_GOPN1B_20200525T0612844_20200525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T061284_20200525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T11030_20200525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T110230_2020525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T1061459_20200525T11304 | Test Failed Image: Colspan="2">Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | |
| CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record Coss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21 Product 25 OFFL_SIR_GOPN1B_20200525T062427_20200525T044654_C001 25 CPFL_SIR_GOPN1B_20200525T080054_20200525T094511_C001 25 CPFL_SIR_GOPN1B_20200525T103154_20200525T103444_C001 25 CPFL_SIR_GOPN1B_20200525T125132_2001 25 CS_OFFL_SIR_GOPN1B_20200525T125044_20200525T125132_C001 25 CPFL_SIR_GOPN1B_20200525T125044_20200525T161345_C001 25 CPFL_SIR_GOPN1B_20200525T175126_20200525T161345_C001 25 CS_OFFL_SIR_GOPN1B_20200525T192742_20200525T1613455_C001 25 CPFL_SIR_GOPN1B_20200525T102184544_20200525T1031242_C001 25 CPFL_SIR_GOPN1B_20200525T1021844_20200525T0613222_C001 25 CPFL_SIR_GOPR1B_20200525T1021844_20200525T061324_C001 25 CPFL_SIR_GOPR1B_20200525T10212844_20200525T1132107_C001 25 CPF | Test Failed Icoss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | |
| CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record Coss of Echo Flag: This flag is currently set for some products over land, but Number of products with errors: 21 Product 25 OFFL_SIR_GOPN1B_20200525T062427_20200525T044654_C001 25 CPFL_SIR_GOPN1B_20200525T080054_20200525T094511_C001 25 CPFL_SIR_GOPN1B_20200525T103154_20200525T103444_C001 25 CPFL_SIR_GOPN1B_20200525T125132_2001 25 CS_OFFL_SIR_GOPN1B_20200525T125044_20200525T125132_C001 25 CPFL_SIR_GOPN1B_20200525T125044_20200525T161345_C001 25 CPFL_SIR_GOPN1B_20200525T175126_20200525T161345_C001 25 CS_OFFL_SIR_GOPN1B_20200525T192742_20200525T1613455_C001 25 CPFL_SIR_GOPN1B_20200525T102184544_20200525T1031242_C001 25 CPFL_SIR_GOPN1B_20200525T1021844_20200525T0613222_C001 25 CPFL_SIR_GOPR1B_20200525T1021844_20200525T061324_C001 25 CPFL_SIR_GOPR1B_20200525T10212844_20200525T1132107_C001 25 CPF | Test Failed Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | |
| CryoSat L1B data includes a waveform data flag for each measurement recomposed of the products with errors: 21 Product 21 Product 21 StropSat L1B, GOPN1B_20200525T044239_20200525T044654_C001 25 CS_OFFL_SIR_GOPN1B_20200525T062427_20200525T062658_C001 25 CS_OFFL_SIR_GOPN1B_20200525T080054_20200525T094511_C001 25 CS_OFFL_SIR_GOPN1B_20200525T103154_20200525T103444_C001 25 CS_OFFL_SIR_GOPN1B_20200525T124123_20200525T124329_C001 25 CS_OFFL_SIR_GOPN1B_20200525T125044_20200525T125132_C001 25 CS_OFFL_SIR_GOPN1B_20200525T130404_20200525T130546_C001 25 CS_OFFL_SIR_GOPN1B_20200525T130404_20200525T161345_C001 25 CS_OFFL_SIR_GOPN1B_20200525T175126_20200525T175126_2001 25 CS_OFFL_SIR_GOPN1B_20200525T192742_20200525T193146_C001 25 CS_OFFL_SIR_GOPN1B_20200525T102742_20200525T061952_C001 25 CS_OFFL_SIR_GOPN1B_20200525T0612844_20200525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T0612844_20200525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T11030_20200525T061952_C001 25 CS_OFFL_SIR_GOPR1B_20200525T1061459_20200525T143040_C001 25 CS_OFFL_SIR_GOPR1B_20200525T142554_20200525T143 | Test Failed Icoss of Echo Loss of Echo | Description The tracking echo is missing for one or more records The tracking echo | |

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over 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.

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| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_GOPM_2_20200525T093150_20200525T093211_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T020604_20200525T020730_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_GOPN_2_20200525T021241_20200525T021544_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T034627_20200525T034926_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T035143_20200525T035701_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_GOPN_2_20200525T044239_20200525T044654_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T052619_20200525T052853_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_GOPN_2_20200525T062132_20200525T062245_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_GOPN_2_20200525T062427_20200525T062658_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_GOPN_2_20200525T070120_20200525T070716_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T080054_20200525T080316_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) | There is an error with the MSS height (solution 1) and 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_GOPN_2_20200525T080344_20200525T080531_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_GOPN_2_20200525T084334_20200525T084526_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_GOPN_2_20200525T094033_20200525T094511_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_GOPN_2_20200525T102313_20200525T102451_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T120303_20200525T120649_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_GOPN_2_20200525T134237_20200525T134553_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_GOPN_2_20200525T143329_20200525T143418_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_GOPN_2_20200525T153014_20200525T153120_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_GOPN_2_20200525T161227_20200525T161345_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_GOPN_2_20200525T174717_20200525T175111_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPN_2_20200525T175126_20200525T175257_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_GOPN_2_20200525T184544_20200525T185157_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_GOPN_2_20200525T192742_20200525T193146_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_GOPN_2_20200525T202501_20200525T202822_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_GOPN_2_20200525T210618_20200525T211008_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |

| CS_OFFL_SIR_GOPN_2_20200525T224033_20200525T224700_C001 | Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
|---|--|---|
| CS_OFFL_SIR_GOPN_2_20200525T234507_20200525T234626_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPR_2_20200525T011639_20200525T012332_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_GOPR_2_20200525T012332_20200525T012637_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_GOPR_2_20200525T025517_20200525T030231_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_GOPR_2_20200525T030231_20200525T030446_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_GOPR_2_20200525T043702_20200525T044125_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_GOPR_2_20200525T044125_20200525T044239_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_GOPR_2_20200525T061459_20200525T061952_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_GOPR_2_20200525T061952_20200525T062131_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_GOPR_2_20200525T075443_20200525T080054_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_GOPR_2_20200525T093617_20200525T094033_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1) | There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records |
| CS_OFFL_SIR_GOPR_2_20200525T111030_20200525T112117_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_GOPR_2_20200525T125350_20200525T130159_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_GOPR_2_20200525T143418_20200525T144451_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_GOPR_2_20200525T161345_20200525T162110_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_GOPR_2_20200525T175257_20200525T175817_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_GOPR_2_20200525T185541_20200525T185808_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography (solution 1) for one or more records |
| CS_OFFL_SIR_GOPR_2_20200525T193147_20200525T193502_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_GOPR_2_20200525T193502_20200525T193855_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_GOPR_2_20200525T211008_20200525T211528_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_GOPR_2_20200525T224700_20200525T225558_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records |

5.5 L2 Measurement Confidence Data Check

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

 Number of products with errors:
 3

| Product | Test Failed | Description |
|---|---------------------|---|
| CS_OFFL_SIR_GOPM_2_20200525T063125_20200525T064358_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_GOPM_2_20200525T064838_20200525T064947_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_GOPM_2_20200525T094719_20200525T095112_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 (20Hz)

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

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

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

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

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| Product | Test Failed | Description |
|---|-------------|--|
| CS_OFFL_SIR_GOPM_2_20200525T001954_20200525T002527_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS OFFE SIR GOPM 2 202005251002803 202005251003347 CO01 | 0 | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |

| CS_OFFL_SIR_GOPM_2_20200525T003954_20200525T011323_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_GOPM_2_20200525T012637_20200525T012732_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_GOPM_2_20200525T014453_20200525T020439_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_GOPM_2_20200525T020730_20200525T021240_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_GOPM_2_20200525T021901_20200525T024052_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_GOPM_2_20200525T024115_20200525T025305_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_GOPM_2_20200525T030446_20200525T030701_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_GOPM_2_20200525T032241_20200525T034223_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_GOPM_2_20200525T035851_20200525T043115_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_GOPM_2_20200525T044733_20200525T050624_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_GOPM_2_20200525T050822_20200525T052003_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_GOPM_2_20200525T053224_20200525T053553_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_GOPM_2_20200525T053748_20200525T055312_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_GOPM_2_20200525T055515_20200525T060436_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_GOPM_2_20200525T062246_20200525T062427_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_GOPM_2_20200525T062658_20200525T062921_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_GOPM_2_20200525T063125_20200525T064358_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_GOPM_2_20200525T070019_20200525T070120_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_GOPM_2_20200525T070717_20200525T071014_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_GOPM_2_20200525T071022_20200525T071454_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_GOPM_2_20200525T071728_20200525T073141_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_GOPM_2_20200525T075031_20200525T075443_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_GOPM_2_20200525T081417_20200525T081603_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_GOPM_2_20200525T081654_20200525T081725_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_GOPM_2_20200525T081955_20200525T084226_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_GOPM_2_20200525T084526_20200525T085353_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
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| CS_OFFL_SIR_GOPM_2_20200525T085702_20200525T092201_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_GOPM_2_20200525T095532_20200525T102113_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_GOPM_2_20200525T102738_20200525T103153_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_GOPM_2_20200525T103551_20200525T110050_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_GOPM_2_20200525T110059_20200525T110205_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_GOPM_2_20200525T110253_20200525T110500_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_GOPM_2_20200525T110548_20200525T110711_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_GOPM_2_20200525T112807_20200525T120009_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_GOPM_2_20200525T120649_20200525T121233_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_GOPM_2_20200525T121415_20200525T122012_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_GOPM_2_20200525T125132_20200525T125235_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_GOPM_2_20200525T130547_20200525T133924_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_GOPM_2_20200525T134553_20200525T135104_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_GOPM_2_20200525T135407_20200525T141228_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_GOPM_2_20200525T143040_20200525T143105_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_GOPM_2_20200525T144451_20200525T151306_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_GOPM_2_20200525T151317_20200525T151808_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_GOPM_2_20200525T152352_20200525T152552_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_GOPM_2_20200525T152559_20200525T153013_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_GOPM_2_20200525T153357_20200525T155938_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_GOPM_2_20200525T160109_20200525T160810_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_GOPM_2_20200525T160811_20200525T160835_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_GOPM_2_20200525T162423_20200525T162649_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_GOPM_2_20200525T162741_20200525T163603_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_GOPM_2_20200525T164234_20200525T164236_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_GOPM_2_20200525T165123_20200525T165734_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_GOPM_2_20200525T165930_20200525T170451_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_GOPM_2_20200525T171601_20200525T172824_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_GOPM_2_20200525T173006_20200525T173853_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_GOPM_2_20200525T174020_20200525T174708_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_GOPM_2_20200525T180942_20200525T181928_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_GOPM_2_20200525T182130_20200525T182842_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_GOPM_2_20200525T183003_20200525T183622_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_GOPM_2_20200525T183856_20200525T184351_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_GOPM_2_20200525T185157_20200525T185540_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_GOPM_2_20200525T185808_20200525T190134_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_GOPM_2_20200525T190951_20200525T191830_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_GOPM_2_20200525T200007_20200525T201530_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_GOPM_2_20200525T201836_20200525T202318_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_GOPM_2_20200525T202324_20200525T202333_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_GOPM_2_20200525T202956_20200525T205241_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_GOPM_2_20200525T205252_20200525T205631_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_GOPM_2_20200525T212929_20200525T215447_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_GOPM_2_20200525T215820_20200525T220218_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_GOPM_2_20200525T220920_20200525T223559_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_GOPM_2_20200525T230722_20200525T231252_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_GOPM_2_20200525T231255_20200525T233456_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_GOPM_2_20200525T233648_20200525T234132_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_GOPM_2_20200525T234136_20200525T234507_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_GOPM_2_20200525T234900_20200526T002257_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_GOPN_2_20200525T121233_20200525T121347_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_GOPN_2_20200525T142327_20200525T142331_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_GOPN_2_20200525T160909_20200525T161118_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_GOPN_2_20200525T161227_20200525T161345_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_GOPN_2_20200525T215600_20200525T215820_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_GOPR_2_20200525T011323_20200525T011326_C001 | | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_GOPR_2_20200525T142554_20200525T143040_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_GOPR_2_20200525T174708_20200525T174717_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_GOPR_2_20200525T175844_20200525T180016_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_GOPR_2_20200525T192418_20200525T192633_C001 | OCOG Altimeter Range Quality, OCOG Backscatter Quality | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |

L2 Quality Flags (20Hz PLRM)

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

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

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

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| Product | Test Failed | Description |
|---|---|--|
| CS_OFFL_SIR_GOPN_2_20200525T002638_20200525T002803_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_GOPN_2_20200525T011327_20200525T011639_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_GOPN_2_20200525T012732_20200525T012824_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_GOPN_2_20200525T020604_20200525T020730_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_GOPN_2_20200525T021241_20200525T021544_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_GOPN_2_20200525T032159_20200525T032241_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_GOPN_2_20200525T034627_20200525T034926_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_GOPN_2_20200525T035143_20200525T035701_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_GOPN_2_20200525T044239_20200525T044654_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_GOPN_2_20200525T053051_20200525T053224_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_GOPN_2_20200525T060436_20200525T060808_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_GOPN_2_20200525T062427_20200525T062658_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_GOPN_2_20200525T064358_20200525T064838_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_GOPN_2_20200525T065918_20200525T070019_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_GOPN_2_20200525T071454_20200525T071638_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_GOPN_2_20200525T074141_20200525T074335_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records. |
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| CS_OFFL_SIR_GOPN_2_20200525T074430_20200525T074442_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_GOPN_2_20200525T080344_20200525T080531_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_GOPN_2_20200525T080850_20200525T081013_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_GOPN_2_20200525T092202_20200525T092537_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_GOPN_2_20200525T093551_20200525T093617_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_GOPN_2_20200525T095112_20200525T095318_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_GOPN_2_20200525T102313_20200525T102451_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_GOPN_2_20200525T102614_20200525T102737_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_GOPN_2_20200525T103154_20200525T103444_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_GOPN_2_20200525T120303_20200525T120649_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_GOPN_2_20200525T122923_20200525T123257_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_GOPN_2_20200525T124123_20200525T124329_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_GOPN_2_20200525T125044_20200525T125132_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_GOPN_2_20200525T130200_20200525T130324_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_GOPN_2_20200525T130404_20200525T130546_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_GOPN_2_20200525T153014_20200525T153120_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_GOPN_2_20200525T161227_20200525T161345_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_GOPN_2_20200525T165759_20200525T165817_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_GOPN_2_20200525T184544_20200525T185157_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_GOPN_2_20200525T190349_20200525T190951_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_GOPN_2_20200525T192742_20200525T193146_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_GOPN_2_20200525T202501_20200525T202822_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_GOPN_2_20200525T212529_20200525T212655_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_GOPN_2_20200525T212726_20200525T212929_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_GOPN_2_20200525T220218_20200525T220222_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_GOPN_2_20200525T224033_20200525T224700_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality | The OCOG Range and Backscatter Quality Flags have been set for one or more records. |
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| CS_OFFL_SIR_GOPN_2_20200525T225559_20200525T225621_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_GOPN_2_20200525T234507_20200525T234626_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_GOPR_2_20200525T002527_20200525T002638_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_GOPR_2_20200525T003703_20200525T003954_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_GOPR_2_20200525T011639_20200525T012332_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_GOPR_2_20200525T012332_20200525T012637_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_GOPR_2_20200525T012844_20200525T013222_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_GOPR_2_20200525T020440_20200525T020604_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_GOPR_2_20200525T021544_20200525T021901_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_GOPR_2_20200525T025517_20200525T030231_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_GOPR_2_20200525T030231_20200525T030446_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_GOPR_2_20200525T030701_20200525T031427_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_GOPR_2_20200525T034223_20200525T034627_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_GOPR_2_20200525T043702_20200525T044125_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_GOPR_2_20200525T044125_20200525T044239_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_GOPR_2_20200525T052003_20200525T052619_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_GOPR_2_20200525T061459_20200525T061952_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_GOPR_2_20200525T061952_20200525T062131_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_GOPR_2_20200525T062921_20200525T063124_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_GOPR_2_20200525T065814_20200525T065918_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_GOPR_2_20200525T071638_20200525T071728_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_GOPR_2_20200525T073740_20200525T074031_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_GOPR_2_20200525T075443_20200525T080054_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_GOPR_2_20200525T080621_20200525T080850_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_GOPR_2_20200525T084226_20200525T084334_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
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| CS_OFFL_SIR_GOPR_2_20200525T093211_20200525T093434_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
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| CS_OFFL_SIR_GOPR_2_20200525T093453_20200525T093551_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_GOPR_2_20200525T093617_20200525T094033_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_GOPR_2_20200525T102114_20200525T102313_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_GOPR_2_20200525T111030_20200525T112117_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_GOPR_2_20200525T120009_20200525T120303_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_GOPR_2_20200525T121347_20200525T121414_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_GOPR_2_20200525T124040_20200525T124123_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_GOPR_2_20200525T124944_20200525T125028_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_GOPR_2_20200525T125350_20200525T130159_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_GOPR_2_20200525T130324_20200525T130403_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_GOPR_2_20200525T133924_20200525T134237_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_GOPR_2_20200525T143418_20200525T144451_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_GOPR_2_20200525T151808_20200525T151952_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_GOPR_2_20200525T161345_20200525T162110_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_GOPR_2_20200525T162249_20200525T162305_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_GOPR_2_20200525T170903_20200525T171601_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_GOPR_2_20200525T172824_20200525T173005_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_0FFL_SIR_G0PR_2_20200525T175257_20200525T175817_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_GOPR_2_20200525T181928_20200525T182130_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_GOPR_2_20200525T192418_20200525T192633_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_GOPR_2_20200525T193147_20200525T193502_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | set for one of more records. |
| CS_OFFL_SIR_GOPR_2_20200525T193502_20200525T193855_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality | Ine Ocean Alumeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records |
| CS_OFFL_SIR_GOPR_2_20200525T194401_20200525T194435_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_GOPR_2_20200525T195232_20200525T200007_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_GOPR_2_20200525T211008_20200525T211528_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_GOPR_2_20200525T224700_202 | 200525T225558_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_GOPR_2_20200525T234627_202 | 200525T234900_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. | | |
| L2 Quality Flags (1 Hz & 1Hz PLRM) | | 1 | | | |
| Currently, there are several common flags rais | ed in the Level 2 products, wi | hich are summarised below. | | | |
| > 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. | | | | | |
| Number of products with errors: | 192 | | | | |
| 5.8 L2 Ocean Retracking Quality C | Check | | | | |
| L2 Retracking Flags (20Hz) | | | | | |
| CryoSat L2 data includes an ocean retracking qua | lity flag for each 20-Hz measure | ement record. The bit value of this flag indic | ates any problems when set. | | |
| Ocean Retracking Quality Flag: This flag is curre | ently set for products over land | and sea ice, but this is to be expected. The | number of products with this error flag set is given below. | | |
| Number of products with errors: | 57 | | | | |
| L2 Retracking Flags (20Hz, PLRM) | | | | | |
| CryoSat L2 data includes an ocean retracking qua | lity flag for each 20-Hz PLRM n | neasurement record. The bit value of this fla | ag indicates any problems when set. | | |
| Ocean Retracking Quality Flag (PLRM): This fla | g is currently set for products G | OPR and GOPN products over sea ice, but | this is to be expected. | | |
| Number of products with errors: | 150 | | | | |
| | 6. GOP L2 | Pole-to-Pole Data Quality | / Check | | |
| 6.1 P2P Product Format Check | | | | | |
| Each product, retrieved and unpacked from the sc | ience server, is checked to ens | ure it consists of both an XML header file (. | HDR) and a NetCDF product file (.nc). | | |
| Number of products with errors: | 0 | | ····· · · · · · · · · · · · · · · · · | | |
| 6.2 D2D Dreduct Header Analysia | | | | | |
| 6.2 P2P Product Header Analysis | | | | | |
| For all products, a series of pre-defined checks are Number of products with errors: | e performed on the MPH and St | PH in order to identify any inconsistencies a | and/or errors raised by the ground-segment processing chain. | | |
| 6.3 P2P Auxiliary Data File Usage | Check | | | | |
| Each product is checked for missing Data Set Des | criptors with respect to a pre-de | etermined baseline and also to check the va | alidity of Auxiliary Data Files is correct. | | |
| Number of products with errors: | 0 | | | | |
| C 4 DOD Auxiliant Composition Fund | . Chaoli | | | | |
| 6.4 P2P Auxiliary Correction Error | r Uneck | | | | |
| For all products, the auxiliary corrections within the Currently, there are some common auxiliary co followed by a table highlighting any additional | prrection errors raised in the I | Level 2 products which are expected due | e to surface type. All common flags are summarised in the list below, | | |
| | | | heric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are | | |
| > Sea State Bias & Sea State Bias PLRM: The e | error value is currently set for pro | oducts over sea ice, but this is to be expected | ed. | | |
| > Altimetric Wind Speed Error: The error value i | is currently set for products over | r land and sea ice, but this is to be expected | d. | | |
| Number of products with errors: | 29 | | | | |
| Product | | Test Failed | Description | | |
| CS_OFFL_SIR_GOP_220200525T003244_202 | 200525T012220_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_GOP_2_20200525T012220_202 | 200525T021157_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_GOP_2_20200525T021157_202 | 200525T030133_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) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records | | |
| CS_OFFL_SIR_GOP_220200525T030133_202 | 200525T035111_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_GOP_220200525T035111_202 | 200525T044047_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_GOP_220200525T044047_202 | 200525T053024_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) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records | | |
| CS_OFFL_SIR_GOP_220200525T053024_202 | 200525T062000_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_GOP_2_20200525T062000_202 | 200525T070938_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) | There is an error with the MSS height (solution 1) and 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_GOP_220200525T070938_202 | 200525T075914_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_GOP_220200525T075914_20200525T084852_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) | There is an error with the MSS height (solution 1) and 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_GOP_220200525T084852_20200525T093828_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_GOP_2_20200525T093828_20200525T102805_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_GOP_2_20200525T102805_20200525T111741_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_GOP_2_20200525T111741_20200525T120719_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_GOP_220200525T120719_20200525T125655_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_GOP_2_20200525T125655_20200525T134633_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_GOP_220200525T134633_20200525T143608_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_GOP_2_20200525T143608_20200525T152546_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_GOP_220200525T152546_20200525T161522_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_GOP_220200525T161522_20200525T170500_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_GOP_220200525T170500_20200525T175435_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_GOP_220200525T175435_20200525T184413_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_GOP_220200525T184413_20200525T193349_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_GOP_220200525T193349_20200525T202327_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_GOP_220200525T202327_20200525T211303_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_GOP_220200525T211303_20200525T220240_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_GOP_220200525T220240_20200525T225216_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220200525T225216_20200525T234154_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_GOP_220200525T234154_20200526T003130_C001 | Mean Dynamic Topography (1) | There is an error with the Mean Dynamic Topography height for one or more records |
| 6.5 P2P Measurement Confidence Data Check | | |

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. 2 Number of products with errors: 6.6 P2P Measurement Quality Flag Check P2P Quality Flags (20Hz) CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products. Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30 P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30 P2P Quality Flags (1 Hz & 1Hz PLRM) Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30 6.8 P2P Ocean Retracking Quality Check P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz 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 GOPR and GOPN products over sea ice, but this is to be expected. Number of products with errors: 26

P2P Retracking Flags 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 GOPR and GOPN products over sea ice, but this is to be expected.

30

7. GOP 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_GOPM1B | 175 | 175 | 6 | 169 | 0 |
| SIR_GOPR1B | 112 | 112 | 0 | 112 | 0 |
| SIR_GOPN1B | 106 | 106 | 0 | 106 | 0 |
| SIR_GOPM_2 | 175 | 175 | 124 | 51 | 0 |
| SIR_GOPR_2 | 112 | 112 | 28 | 84 | 0 |
| SIR_GOPN_2 | 106 | 106 | 43 | 63 | 0 |
| SIR_GOP_P2P | 29 | 29 | 0 | 29 | 0 |

0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

| Number of QCC report | | | Total ni | imber of occurrences of e | | | | |
|---|--|--|---|--|---|--|---|-------------------|
| Product Type | BCSHNCDF | MVIOEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNC | CERBSZOPOEPNCDF | |
| SIR_GOPM1B | 169 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPM_2 | 0 | 38 | 33 | 0 | 41 | 0 | 35 | |
| SIR_GOPN1B | 105 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPN_2 | 0 | 10 | 39 | 6 | 32 | 33 | 25 | |
| SIR_GOPR1B | 111 0 | 0 33 | 0 49 | 0 | 0 36 | 0 34 | 0 21 | |
| SIR_GOPR_2 | 0 | 33 | 49 | U | 30 | 34 | 21 | |
| Product Type | RPEPOPFDLRMNCDF | RPEPOPFDPLRMSARN | CORPEPOPFDPLRMSINN | CDIRPEPOPFDSARNCDF | RPEPOPFDSINNCDF | RPEPOPLRMNCDF | RPEPOPSARNCDF | |
| SIR_GOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPM_2 | 32 | 0 | 0 | 0 | 0 | 25 | 0 | |
| SIR_GOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPN_2 | 0 | 0 | 30 | 0 | 38 | 0 | 0 | |
| SIR_GOPR1B | 0 0 | 0 53 | 0 | 0 61 | 0 | 0 | 0 51 | |
| SIR_GOPR_2 | 0 | 55 | 0 | 01 | U | 0 | 51 | |
| Product Type | RPEPOPSINNCDF | RSSBCONCDF | RSSHAOFDNCDF | RSSHAOFDPLRMNCDF | RSSHAONCDF | RSWHOEPFDNCDF | RSWHOEPFDPLRMNCD | |
| SIR_GOPM1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPM_2 | 0 | 2 | 31 | 0 | 4 | 33 | 0 | |
| SIR_GOPN1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPN_2 | 33 | 16 | 44 | 59 | 33 | 33 | 34 | |
| SIR_GOPR1B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SIR_GOPR_2 | 0 | 4 | 68 | 44 | 1 | 37 | 55 | |
| Product Type | RSWHOEPNCDF | SOOHHIFHD | SCSTODHRNCDF | SCSTODNCDF | - | - | - | |
| SIR GOPM1B | 0 | 0 | 0 | 0 | | | | |
| SIR_GOPM_2 | 2 | 0 | 0 | 0 | | | | |
| SIR_GOPN1B | 0 | 0 | 50 | 1 | | | | |
| SIR_GOPN_2 | 16 | 1 | 0 | 0 | | | | |
| SIR_GOPR1B | 0 | 0 | 112 | 2 | | | | |
| SIR_GOPR_2 | 5 | 1 | 0 | U | | | | |
| | | | | | | | | |
| Product Type | IOHHMOOR | MVIOEPFDNCDF | MVIOEPNCDF | MVIONCDF | RBSZOPOEPFDNCDF | RBSZOPOEPFDPLRMNC | JURDSZUPUEPNCDF | |
| Product Type SIR_GOP_2_ | IOHHMOOR 14 | MVIOEPFDNCDF 28 | MVIOEPNCDF 29 | 5 | RBSZOPOEPFDNCDF 29 | RBSZOPOEPFDPLRMNC | 29 | |
| SIR_GOP_2_ | 14 | 28 | 29 | 5 | 29 | 18 | 29 | |
| SIR_GOP_2_ Product Type | 14 RPEPOPFDPLRMSINN | 28 CD RPEPOPFDSINNCDF | 29 RPEPOPSINNCDF | 5 RSSBCONCDF | 29 RSSHAOFDNCDF | 18 RSSHAOFDPLRMNCDF | 29 RSSHAONCDF | |
| SIR_GOP_2_ | 14 | 28 | 29 | 5 | 29 | 18 | 29 | |
| SIR_GOP_2_ Product Type | 14 RPEPOPFDPLRMSINN | 28 CD RPEPOPFDSINNCDF | 29 RPEPOPSINNCDF 22 | 5 RSSBCONCDF | 29 RSSHAOFDNCDF | 18 RSSHAOFDPLRMNCDF | 29 RSSHAONCDF | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ | 14 RPEPOPFDPLRMSINNO 18 | 28 CDIRPEPOPFDSINNCDF 29 | 29 RPEPOPSINNCDF 22 | 5 RSSBCONCDF 16 | 29 RSSHAOFDNCDF | 18 RSSHAOFDPLRMNCDF | 29 RSSHAONCDF | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: | 14 RPEPOPFDPLRMSINNO 18 RSWHOEPFDNCDF 29 | 28 CDIRPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 | 29 RSSHAOFDNCDF | 18 RSSHAOFDPLRMNCDF | 29 RSSHAONCDF | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation | 14 RPEPOPFDPLRMSINNO 18 RSWHOEPFDNCDF 29 Test name | 28 CDIRPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 19 | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details | 29 RSSHAOFDNCDF 29 | 18 RSSHAOFDPLRMNCDF 18 | 29 RSSHAONCDF | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: | 14 RPEPOPFDPLRMSINNO 18 RSWHOEPFDNCDF 29 | 28 CDIRPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 19 | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details | 29 RSSHAOFDNCDF | 18 RSSHAOFDPLRMNCDF 18 | 29 RSSHAONCDF | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation | 14 RPEPOPFDPLRMSINNO 18 RSWHOEPFDNCDF 29 Test name BurstCounterStep20HzN | 28 CDIRPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 19 | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details The burst counter should b | 29 RSSHAOFDNCDF 29 | 18 RSSHAOFDPLRMNCDF 18 | 29 RSSHAONCDF 24 - | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF | 14 RPEPOPFDPLRMSINNG 18 RSWHOEPFDNCDF 29 Test name BurstCounterStep20HzN MissingValueIntOceanEx | 28 29 29 RSWHOEPFDPLRMNCD 19 etCDF ccludingPolarFD2NetCDF | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details The burst counter should b The value should not be a | 29 RSSHAOFDNCDF 29 - e one higher with regard to t missing value' for surface ty | 18 RSSHAOFDPLRMNCDF 18 - | 29 RSSHAONCDF 24 | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF | 14 RPEPOPFDPLRMSINN(18 RSWHOEPFDNCDF 29 Test name BurstCounterStep20HzN MissingValueIntOceanEx MissingValueIntOceanEx | 28 CD(RPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 19 etCDF ccludingPolarFD2NetCDF ccludingPolarNetCDF | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details The burst counter should b The value should not be a The value should not be a | 29 RSSHAOFDNCDF 29 e one higher with regard to t missing value' for surface ty missing value' for surface ty | 18 RSSHAOFDPLRMNCDF 18 - | 29 RSSHAONCDF 24 | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF | 14 RPEPOPFDPLRMSINNG 18 RSWHOEPFDNCDF 29 Test name BurstCounterStep20HzN MissingValueIntOceanEx | 28 CD(RPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 19 etCDF ccludingPolarFD2NetCDF ccludingPolarNetCDF | 29 RPEPOPSINNCDF 22 PF RSWHOEPNCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details The burst counter should b The value should not be a The value should not be a | 29 RSSHAOFDNCDF 29 - e one higher with regard to t missing value' for surface ty | 18 RSSHAOFDPLRMNCDF 18 - | 29 RSSHAONCDF 24 | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPNCDF | 14 RPEPOPFDPLRMSINNO 18 RSWHOEPFDNCDF 29 Test name BurstCounterStep20HzN MissingValueIntOceanEx MissingValueIntOceanEx MissingValueIntOceanNe | 28 CD(RPEPOPFDSINNCDF 29 RSWHOEPFDPLRMNCD 19 etCDF ccludingPolarFD2NetCDF ccludingPolarNetCDF | 29 RPEPOPSINNCDF 22 F RSWHOEPNCDF 17 | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details The burst counter should b The value should not be a' | 29 RSSHAOFDNCDF 29 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty missing value of romentations of the surface ty missing value of the surface ty | 18 RSSHAOFDPLRMNCDF 18 - | 29 RSSHAONCDF 24 | |
| SIR_GOP_2_ Product Type SIR_GOP_2_ Product Type SIR_GOP_2_ Test Description Key: Abbreviation BCSHNCDF MVIOEPFDNCDF MVIOEPFDNCDF MVIONCDF RBSZOPOEPFDNCDF | 14 RPEPOPFDPLRMSINNO 18 RSWHOEPFDNCDF 29 Test name BurstCounterStep20HzN MissingValueIntOceanEx MissingValueIntOceanEx MissingValueIntOceanNe RangeBackscatterSigma | 28 CD(RPEPOPFDSINNCDF 29 RSWH0EPFDPLRMNCD 19 etCDF et | 29 RPEPOPSINNCDF 22 F RSWHOEPNCDF 17 rFD2NetCDF | 5 RSSBCONCDF 16 SPHLPQWNCDF 29 Details The burst counter should b The value should not be a' | 29 RSSHAOFDNCDF 29 e one higher with regard to t missing value' for surface ty missing value' for surface ty missing value' for surface ty o should be between 700 an as | 18 RSSHAOFDPLRMNCDF 18 - | 29 RSSHAONCDF 24 | |
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| 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 | | | |
|--|---|---|--|--|--|
| SOOHHIFHD | SameOrOneHigher1HzIndexFor20HzData | The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample | | | |
| SCSTODHRNCDF | SequenceCounterStepTODHRNetCDF | Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1) | | | |
| SCSTODNCDF | SequenceCounterStepTODNetCDF | The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter | | | |
| 7.3 Missing QC | 7.3 Missing QCC Reports | | | | |
| Number of products with missing QCC reports: 0 | | | | | |