

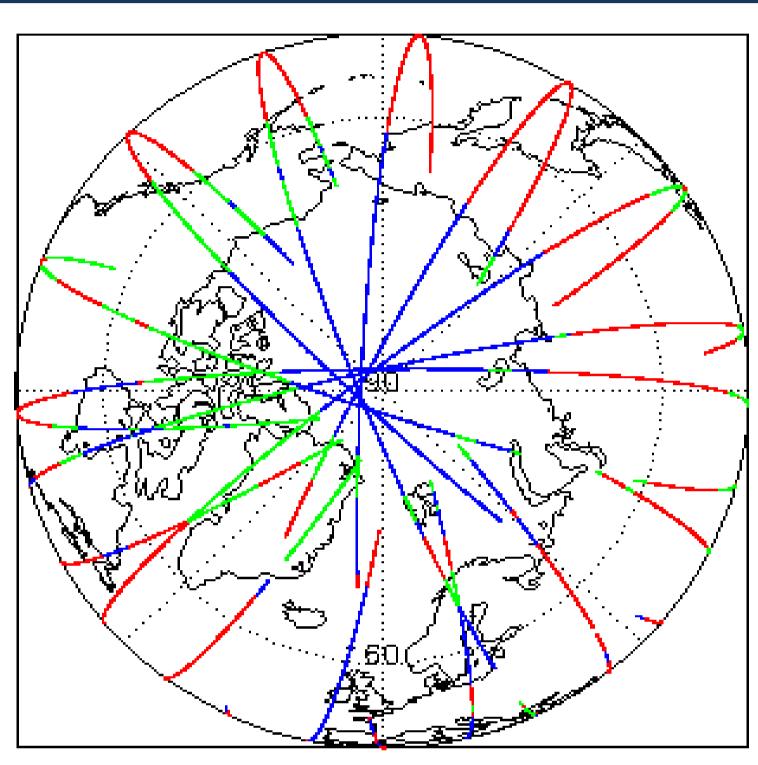
## 1. Overview

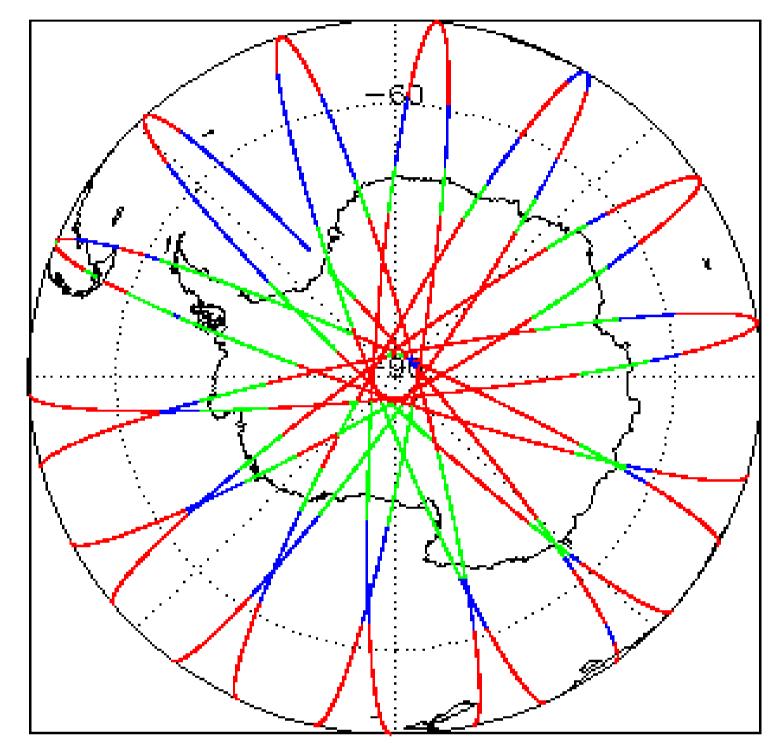
Report Production:	05-Jul-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

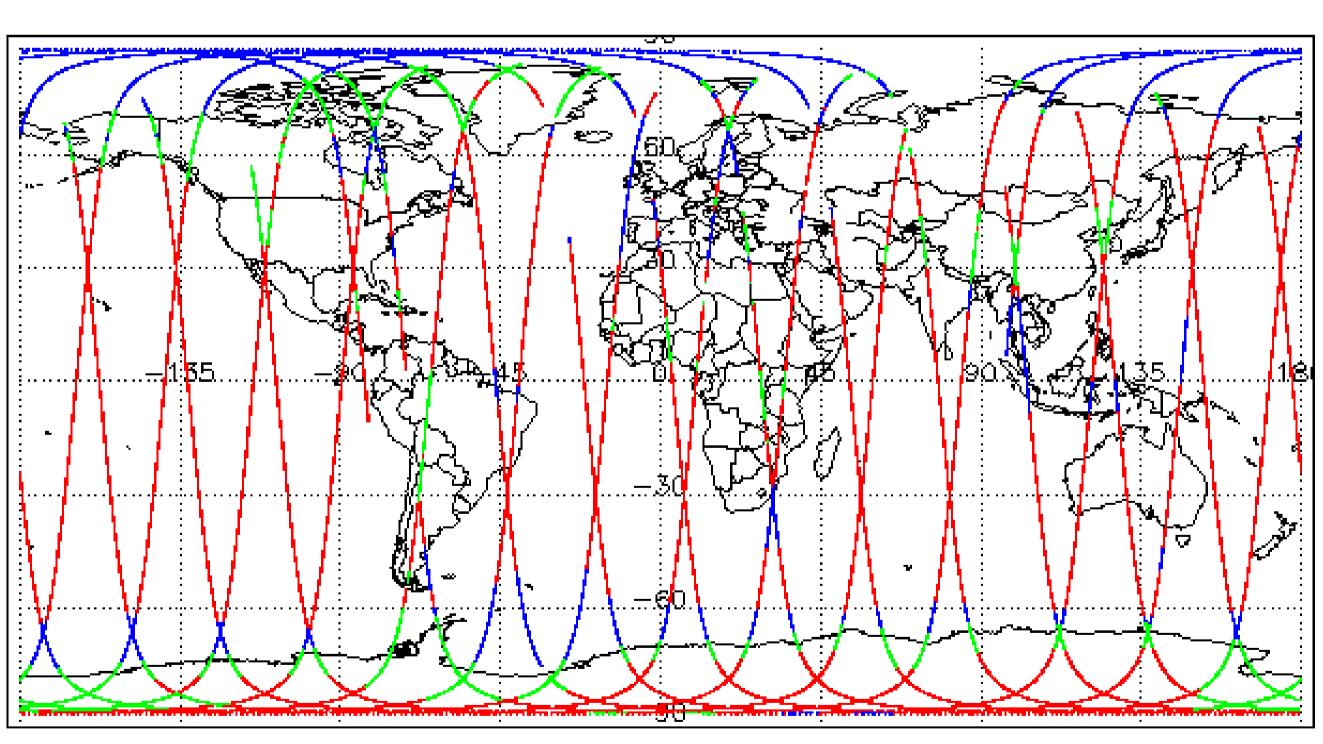
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

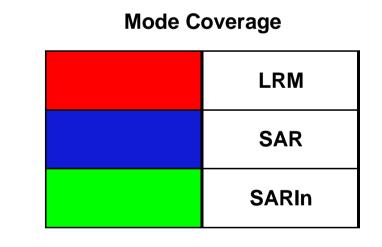
Missio	n / Instru	ment News
03-Ju	ıl-2021	None
04-Ju	ıl-2021	None
05-Ju	ıl-2021	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

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

## 4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN 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:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

0

5

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210704T012358_20210704T015214_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20210704T021451_20210704T022147_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20210704T053523_20210704T053649_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20210704T091004_20210704T092335_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20210704T121324_20210704T124524_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more record

#### 4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

Test Failed Description **Product** CS\_OFFL\_SIR\_NOPM1B\_20210704T121324\_20210704T124524\_C001 Loss of Echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPM1B\_20210704T170918\_20210704T174229\_C001 The tracking echo is missing for one or more records Loss of Echo Loss of Echo CS\_OFFL\_SIR\_NOPN1B\_20210704T052802\_20210704T052819\_C001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPN1B\_20210704T053044\_20210704T053146\_C001 Loss of Echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPN1B\_20210704T075450\_20210704T080014\_C001 Loss of Echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPN1B\_20210704T102718\_20210704T102937\_C001 Loss of Echo The tracking echo is missing for one or more records Loss of Echo CS\_OFFL\_SIR\_NOPN1B\_20210704T133858\_20210704T133929\_C001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPN1B\_20210704T164440\_20210704T164639\_C001 The tracking echo is missing for one or more records Loss of Echo Loss of Echo CS\_OFFL\_SIR\_NOPN1B\_20210704T165344\_20210704T165437\_C001 The tracking echo is missing for one or more records Loss of Echo CS\_OFFL\_SIR\_NOPN1B\_20210704T201545\_20210704T201659\_C001 The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPN1B\_20210704T215118\_20210704T215614\_C001 Loss of Echo The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPN1B\_20210704T233047\_20210704T233459\_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS\_OFFL\_SIR\_NOPR1B\_20210704T042745\_20210704T042955\_C001 Loss of Echo Loss of Echo CS\_OFFL\_SIR\_NOPR1B\_20210704T044008\_20210704T044336\_C001 The tracking echo is missing for one or more records Loss of Echo CS\_OFFL\_SIR\_NOPR1B\_20210704T182424\_20210704T182504\_C001 The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

#### **5.1 L2 Product Format Check**

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

Number of products with errors:

CS\_OFFL\_SIR\_NOPR1B\_20210704T193433\_20210704T193808\_C001

#### **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.

Loss of Echo

Number of products with errors:

#### **5.3 L2 Auxiliary Data File Usage Check**

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

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

Number of products with errors:

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 Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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

Number of products with errors:

Test Failed Description **Product** There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPM 2 20210704T232252 20210704T232607 C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T002107\_20210704T002503\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T012042\_20210704T012235\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Total Geocentric Ocean Tide height (solution 1: CS\_OFFL\_SIR\_NOPN\_2\_20210704T053044\_20210704T053146\_C001 Total Geocentric Ocean Tide (GOT) GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T060911\_20210704T061036\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocear CS\_OFFL\_SIR\_NOPN\_2\_20210704T061546\_20210704T061853\_C001 Topography (solution 1) and the tidal corrections for one or more records Tide (GOT), Total Geocentric Ocean Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T074950\_20210704T075241\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20210704T075450 20210704T080014 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T084543\_20210704T084915\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T092926\_20210704T093201\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20210704T102442 20210704T102553 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T110636\_20210704T111018\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T120403\_20210704T120627\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20210704T120637\_20210704T120826\_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS\_OFFL\_SIR\_NOPN\_2\_20210704T124648\_20210704T124838\_C001 more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20210704T125658\_20210704T125916\_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS\_OFFL\_SIR\_NOPN\_2\_20210704T134357\_20210704T134825\_C001 more records There is an error with the Total Geocentric Ocean Tide height (solution 1: Total Geocentric Ocean Tide (GOT) CS\_OFFL\_SIR\_NOPN\_2\_20210704T152606\_20210704T153054\_C001 GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T160622\_20210704T161001\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T174548\_20210704T174906\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS\_OFFL\_SIR\_NOPN\_2\_20210704T175419\_20210704T175544\_C001 more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20210704T183636 20210704T183739 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20210704T193325 20210704T193432 C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20210704T201545 20210704T201659 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20210704T215118\_20210704T215614\_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20210704T224859 20210704T225510 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20210704T233047 20210704T233459 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Total Geocentric Ocean Tide height (solution 1: Total Geocentric Ocean Tide (GOT) CS\_OFFL\_SIR\_NOPR\_2\_20210704T001755\_20210704T002042\_C001 GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPR\_2\_20210704T002504\_20210704T003024\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS\_OFFL\_SIR\_NOPR\_2\_20210704T035846\_20210704T035948\_C001 more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPR\_2\_20210704T083821\_20210704T083917\_C001 Mean Dynamic Topography (1) more records

CS_OFFL_SIR_NOPR_2_20210704T113526_20210704T113952_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210704T133929_20210704T134357_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210704T151609_20210704T152606_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210704T165722_20210704T170509_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210704T183739_20210704T184657_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210704T201659_20210704T202414_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210704T215614_20210704T220341_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210704T222246_20210704T222448_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210704T233459_20210704T234154_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:** 

5

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210704T012358_20210704T015214_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20210704T021451_20210704T022147_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20210704T053523_20210704T053649_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20210704T091004_20210704T092335_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20210704T121324_20210704T124524_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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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210703T234544_20210704T000808_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T000930_20210704T001755_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T004100_20210704T004137_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T004715_20210704T010839_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T011725_20210704T012042_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T012358_20210704T015214_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T022344_20210704T024845_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T025111_20210704T025618_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T025625_20210704T025952_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T030341_20210704T033714_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T042301_20210704T042745_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20210704T043111_20210704T043651_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T044336_20210704T051644_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T052934_20210704T053044_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T054921_20210704T060629_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T061037_20210704T061546_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T062217_20210704T065821_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T070822_20210704T071006_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T072538_20210704T074314_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T075241_20210704T075450_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T080219_20210704T083821_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T085045_20210704T090908_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T091004_20210704T092335_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T093519_20210704T093902_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T094112_20210704T095621_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T095823_20210704T100745_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T102553_20210704T102718_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T102937_20210704T103230_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T103351_20210704T104705_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T110312_20210704T110429_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T111018_20210704T111804_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T112049_20210704T113526_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T121324_20210704T124524_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T125103_20210704T125658_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T130039_20210704T132515_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T135709_20210704T142411_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T143050_20210704T143512_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Occan Altimator Banga CCHA CMH	The Ocean Altimeter Benge, SSHA, SWH and Becksootter Quality Flags
CS_OFFL_SIR_NOPM_2_20210704T143931_20210704T150608_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T150616_20210704T150619_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T150722_20210704T150805_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T153054_20210704T160248_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T161001_20210704T161540_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T161834_20210704T162323_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T163107_20210704T163238_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T163604_20210704T164059_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T165340_20210704T165344_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T165438_20210704T165607_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T170918_20210704T174229_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T174907_20210704T175418_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T175812_20210704T181602_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T184657_20210704T192104_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T193808_20210704T200356_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T202414_20210704T203842_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T204323_20210704T204500_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T204504_20210704T205535_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T205712_20210704T210033_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T210247_20210704T210807_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T210825_20210704T211030_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T211916_20210704T213142_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T213351_20210704T215117_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T221314_20210704T222246_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T222448_20210704T223927_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T224213_20210704T224708_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20210704T224711_20210704T224719_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T225543_20210704T225714_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T230017_20210704T230345_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T230348_20210704T230357_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210704T231855_20210704T232122_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T052841_20210704T052850_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T053649_20210704T053713_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T102718_20210704T102937_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T110429_20210704T110623_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T175419_20210704T175544_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T175419_20210704T175544_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T175419_20210704T175544_C001  CS_OFFL_SIR_NOPN_2_20210704T201545_20210704T201659_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T175419_20210704T175544_C001  CS_OFFL_SIR_NOPN_2_20210704T201545_20210704T201659_C001  CS_OFFL_SIR_NOPR_2_20210704T051759_20210704T051816_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T175419_20210704T175544_C001  CS_OFFL_SIR_NOPN_2_20210704T201545_20210704T201659_C001  CS_OFFL_SIR_NOPR_2_20210704T051759_20210704T051816_C001  CS_OFFL_SIR_NOPR_2_20210704T095621_20210704T095823_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH 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.

Number of products with errors: 93		
Product	Test Failed	Description
LS OFFE SIR NOPN / /0/10/04/1004001 /0/10/04/1004/100 C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
US OFFE SIR NOPN / /U/10/04/1004/38 /U/10/04/10045/8 COUT	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
LS OFFE SIR NOPN / /0/10/04/01/7/ /0/10/04/01/7/4 COOT	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
US OFFE SIR NOPN / /0/10/04/01/04/ /0/10/04/01//35 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 OFFE SIR NOPN / 202107041015214 202107041015756 C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

Comparison   Com	CS_OFFL_SIR_NOPN_2_20210704T021436_20210704T021451_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Co. Coll.   Silv. NORM   2.000 FORM 1000 SECURITY FLACE COV   COCCO Abstracted Calcing   Co. Coll.	CS_OFFL_SIR_NOPN_2_20210704T024938_20210704T025111_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CSI DPTI, SRR NORN 2 2010/07/07/08/09 2010/07/07/07/09 2010/07/07/09 2010/07/07/07/09 2010/07/07/07/09 2010/07/07/07/09 2010/07/07/07/07/07/07/07/07/07/07/07/07/07	CS_OFFL_SIR_NOPN_2_20210704T025952_20210704T030124_C001		
CS. CFFL SIR NOPN 2 22210791T05465 262 CYCTT05400 CO11  CS. CFFL SIR NOPN 2 22210791T0546 262 CYCTT05400 CO11  CS. CFFL SIR NOPN 2 22210791T0546 262 CYCTT05400 CO11  CS. CFFL SIR NOPN 2 22210791T0546 262 CYCTT05400 CO11  CS. CFFL SIR NOPN 2 22210791T0546 262 CYCTT05400 CO11  CS. CFFL SIR NOPN 2 22210791T0546 262 CYCTT05400 CO11  CS. CFFL SIR NOPN 2 22210791T0546 2	CS_OFFL_SIR_NOPN_2_20210704T041018_20210704T041202_C001		
SOUTH JERN NOPN 2. 200 NOTHERS SERVICE TO SERVICE TO SERVICE AND	CS_OFFL_SIR_NOPN_2_20210704T042955_20210704T043111_C001		
CS_OFF_BIR_NORN_2_scriptchites (a_sun_issue_color of Backware Sample pick, OCCA)  CS_OFF_BIR_NORN_2_scriptchites (a_sun_issue_color of Backware Sample Sample of Backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self or one of micros of backware County Figs have been self o	CS_OFFL_SIR_NOPN_2_20210704T043853_20210704T044008_C001		
CS_OFFL_SIR_NOPI_2_2021070-170569_2021070-1705001_CODI  CS_OFFL_SIR_NOPI_2_2021070-170569_20210001  CS_OFFL_SIR_NOPI_2_2021070-170	CS_OFFL_SIR_NOPN_2_20210704T061546_20210704T061853_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_NOPN_2_zcotrorel107460_zcotrorel1080014_COV Almeer Range and Bastactic County Flags of Bastactic County Flags	CS_OFFL_SIR_NOPN_2_20210704T072452_20210704T072537_C001		
and Backscotter Quality PLBM, Color All PLBM,	CS_OFFL_SIR_NOPN_2_20210704T074950_20210704T075241_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOFPL_2_20210704T108340_20210704T108927_C001  CS_OFFL_SIR_NOFPL_2_20210704T108350_20210704T108937_C001  CS_OFFL_SIR_NOFPL_2_20210704T108350_20210704T108937_C001  CS_OFFL_SIR_NOFPL_2_20210704T108350_20210704T108937_C001  CS_OFFL_SIR_NOFPL_2_20210704T108350_20210704T108937_C001  CS_OFFL_SIR_NOFPL_2_20210704T108350_20210704T108937_C001  CS_OFFL_SIR_NOFPL_2_20210704T109350_20210704T108937_C001  CS_OFFL_SIR_NOFPL_2_20210704T109350_2001  CS_OFFL_SIR_NOFPL_2_20210704T110930_20210704T109350_2001  CC_OFFL_SIR_NOFPL_2_20210704T110930_20210704T109350_2001  CC_OFFL_SIR_NOFPL_2_20210704T110930_20210704T109362_2001  CC_OFFL_	CS_OFFL_SIR_NOPN_2_20210704T075450_20210704T080014_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
COCCE Basicscater Quality  CS_OFFL_SIR_NOPN_2_20210704T108745_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T109745_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T109745_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T109745_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T102337_C001  CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T10237_C001  CS_OFFL_SIR_NOPN_2_20210704T104504_20210704T10237_C001  CS_OFFL_SIR_NOPN_2_20210704T10450_20210704T10237_C001  CS_OFFL_SIR_NOPN_2_20210704T10450_202100104  CCOCG_Altimeter Range_Quality PLRM. CCOCG_Basicscater Quality  CCCCG_Altimeter	CS_OFFL_SIR_NOPN_2_20210704T083917_20210704T084011_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T102926_20210704T10057_C001  CS_OFFL_SIR_NOPN_2_20210704T102745_20210704T10057_C001  CS_OFFL_SIR_NOPN_2_20210704T102745_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T102745_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T102745_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T102745_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T102705_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T1045040_20210704T105842_C001  CS_OFFL_SIR_NOPN_2_20210704T105309_20210704T10237_C001  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T11050_C0020  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T11050_C0020  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T11050_C0020  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T11050_C0020  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T11050_C0020  CS_OFFL_SIR_NOPN_2_20210704T11050_20210704T11050_C0020  CCCOCA Alimeter Range Quality PLRM, Proceedings and Backscatter Quality Flags have been set for one or more records.  CCCOCA Alimeter Range Quality PLRM, Proceedings and Backscatter Quality Flags have been set for one or more records.  CCCOCA Alimeter Range Quality PLRM, Proceedings and Backscatter Quality Flags have been set for one or more records.  CCCOCA Alimeter Range Quality PLRM, Proceedings and Backscatter Quality Flags have been set for one or more records.  CCCOCA Alimeter Range Quality PLRM, Proceedings and Backscatter Quality Flags have been set for one or more records.  CCCOCA Alimeter Range Quality PLRM, Proceedings a	CS_OFFL_SIR_NOPN_2_20210704T084543_20210704T084915_C001		, ,
OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20210704T102718_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T102718_20210704T102937_C001  CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T105300_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T105300_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T105300_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T10530_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T10530_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T10530_20210704T10530_C001  CCOG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210704T10530_20210704T11050_C001  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCGG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more records.  CCCGG Altimeter Range Quality PLRM, C0COG Range and Backscatter Quality Flags have been set for one or more record	CS_OFFL_SIR_NOPN_2_20210704T092926_20210704T093201_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T104708_20210704T105309_C001  CS_OFFL_SIR_NOPN_2_20210704T105340_20210704T105642_C001  CS_OFFL_SIR_NOPN_2_20210704T105340_20210704T105642_C001  CS_OFFL_SIR_NOPN_2_20210704T105340_20210704T105642_C001  CS_OFFL_SIR_NOPN_2_20210704T105340_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T110537_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11050_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11050_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11050_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11050_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11050_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11050_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120626_C001  CCS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120626_C001  CCS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120626_C001  CCS_OFFL_SIR_NOPN_2_20210704T120537_20210704T120626_C001  CCS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120644_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120644_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120644_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120644_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120644_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120644_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120646_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120646_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120646_C001  CS_OFFL_SIR_NOPN_2_20210704T120558_20210704T120646_C0	CS_OFFL_SIR_NOPN_2_20210704T100745_20210704T101057_C001		
OCOG Backscatter Quality DCS_OFFL_SIR_NOPN_2_20210704T105340_20210704T105642_C001  CS_OFFL_SIR_NOPN_2_20210704T110150_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110150_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110150_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T110030_20210704T110007_C001  CS_OFFL_SIR_NOPN_2_20210704T110030_20210704T110007_C001  CS_OFFL_SIR_NOPN_2_20210704T12003_20210704T120027_C001  CS_OFFL_SIR_NOPN_2_20210704T12003_20210704T120027_C001  CS_OFFL_SIR_NOPN_2_20210704T12003_20210704T120026_C001  CS_OFFL_SIR_NOPN_2_20210704T12003_20210704T120044_C001  CS_OFFL_SIR_NOPN_2_20210704T12003_20210704T120046_C001  CCS_OFFL_SIR_NOPN_2_20210704T12003_20210704T120046_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20210704T120044_C001  CCS_OFFL_SIR_NOPN_2_20	CS_OFFL_SIR_NOPN_2_20210704T102718_20210704T102937_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T110237_C001  CS_OFFL_SIR_NOPN_2_20210704T110530_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T110536_20210704T11018_C001  CS_OFFL_SIR_NOPN_2_20210704T110536_20210704T110537_20	CS_OFFL_SIR_NOPN_2_20210704T104706_20210704T105309_C001		
CS_OFFL_SIR_NOPN_2_20210704T110636_20210704T110826_C001  CS_OFFL_SIR_NOPN_2_20210704T110636_20210704T114807_C001  CS_OFFL_SIR_NOPN_2_20210704T114441_20210704T114807_C001  CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120846_C001  CS_OFFL_SIR_NOPN_2_20210704T120638_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120638_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120638_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120638_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CCOG Altimeter Range Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Backscatter Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CCOG Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210704T105340_20210704T105642_C001		
CS_OFFL_SIR_NOPN_2_20210704T114441_20210704T114807_C001  CS_OFFL_SIR_NOPN_2_20210704T114441_20210704T114807_C001  CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CCOCG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CCCG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.  CCCCG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.  CCCCCG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records.  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_NOPN_2_20210704T110150_20210704T110237_C001		
CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001  CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T133322_20210704T133351_C001  CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backsc	CS_OFFL_SIR_NOPN_2_20210704T110636_20210704T111018_C001		
CS_OFFL_SIR_NOPN_2_20210704T120827_C001  CS_OFFL_SIR_NOPN_2_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120823_20210704T120826_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210704T114441_20210704T114807_C001		
CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120926_C001  OCOG Backscatter Quality  OCean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter	CS_OFFL_SIR_NOPN_2_20210704T120403_20210704T120627_C001		
CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001  CS_OFFL_SIR_NOPN_2_20210704T1333322_20210704T133351_C001  CS_OFFL_SIR_NOPN_2_20210704T1333322_20210704T133351_C001  CS_OFFL_SIR_NOPN_2_20210704T1333322_20210704T133351_C001  CS_OFFL_SIR_NOPN_2_20210704T1333322_20210704T133351_C001  CS_OFFL_SIR_NOPN_2_20210704T1333322_20210704T133351_C001  CS_OFFL_SIR_NOPN_2_20210704T1333322_20210704T133351_C001	CS_OFFL_SIR_NOPN_2_20210704T120637_20210704T120826_C001		
CS_OFFL_SIR_NOPN_2_20210704T132658_20210704T132916_C001  OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range and Backscatter Quality Flags have been set for one or ocog Range R	CS_OFFL_SIR_NOPN_2_20210704T120923_20210704T120944_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210704T132846_C001  OCOG Backscatter Quality  More records.  OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20210704T125658_20210704T125916_C001		
US OFFI SIR NOPN / /1/11/1411333// /1/11/141133351 UUU	CS_OFFL_SIR_NOPN_2_20210704T132515_20210704T132846_C001		
More records.	CS_OFFL_SIR_NOPN_2_20210704T133322_20210704T133351_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPN_2_20210704T134357_20210704T134825_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T134907_20210704T135029_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T135358_20210704T135627_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T142920_20210704T143050_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T143512_20210704T143802_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T152606_20210704T153054_C001	TAITIMETER Range and Backscatter Chality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T161540_20210704T161655_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T163238_20210704T163604_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T165344_20210704T165437_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T170510_20210704T170642_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T170723_20210704T170918_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T174548_20210704T174906_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T175419_20210704T175544_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T181602_20210704T181914_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T193325_20210704T193432_C001	TAITIMETER Range and Backscatter Chality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T210110_20210704T210247_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T211030_20210704T211133_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T220920_20210704T221314_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T224028_20210704T224213_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T224859_20210704T225510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T232608_20210704T232730_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T233047_20210704T233459_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210704T235208_20210704T235443_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T001755_20210704T002042_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T002504_20210704T003024_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T012235_20210704T012358_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20210704T030124_20210704T030341_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
00_011L_011\_1\_2_202101041030124_202101041030341_0001	Altimeter Range and Backscatter Quality PLRM Occas Altimeter Banga SSHA SWH	set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T044008_20210704T044336_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T053152_20210704T053522_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T060629_20210704T060911_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T061854_20210704T062217_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T071006_20210704T072021_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T074314_20210704T074950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T080015_20210704T080219_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T085007_20210704T085045_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T092336_20210704T092926_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T103231_20210704T103351_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T111951_20210704T112049_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T113526_20210704T113952_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T113952_20210704T114342_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T120826_20210704T120923_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T120945_20210704T121200_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T143802_20210704T143931_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T151609_20210704T152606_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T160249_20210704T160622_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T161655_20210704T161834_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T165722_20210704T170509_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T170642_20210704T170723_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T174230_20210704T174548_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T175544_20210704T175811_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T183421_20210704T183636_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T183739_20210704T184657_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20210704T201659_20210704T202414_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T211217_20210704T211608_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T213142_20210704T213351_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T215614_20210704T220341_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T222246_20210704T222448_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T223927_20210704T224028_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T232730_20210704T232948_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T232952_20210704T233046_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T233459_20210704T234154_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210704T235549_20210705T000042_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which 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: 168

### 5.7 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 57

## L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 133

## 7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	140	140	5	135	0
SIR_NOPR1B	91	91	0	91	0
SIR_NOPN1B	104	104	2	102	0
SIR_NOPM_2	140	140	96	44	0
SIR_NOPR_2	91	91	22	69	0
SIR NOPN 2	104	104	45	59	0

## 7.1 QCC Errors

Number of QCC reports with errors:

0

#### 7.2 QCC Warnings

Number of QCC reports with warnings

1649

Total number of occurrences of each warning
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				or or occurrences or ca	<b>3</b>		
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_NOPM1B	135	0	0	0	0	0	0
SIR_NOPM_2	0	37	40	0	37	0	31
SIR_NOPN1B	102	0	0	0	0	0	0
SIR_NOPN_2	0	10	32	3	23	29	22
SIR_NOPR1B	87	0	0	0	0	0	0
SIR_NOPR_2	0	37	44	1	41	32	21

Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	28	0	0	0	0	23	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	25	0	33	0	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	50	0	57	0	0	49

Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	6	25	0	2	31	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	25	16	39	51	23	26	29
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	3	55	38	4	42	45

Product Type	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-	-
SIR_NOPM1B	0	0	0	0			
SIR_NOPM_2	2	0	0	0			
SIR_NOPN1B	0	0	50	0			
SIR_NOPN_2	11	1	0	0			
SIR_NOPR1B	0	0	91	1			
SIR NOPR 2	0	4	0	0			

Test Description Key:	Test Description Key:					
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

# 7.3 Missing QCC Reports

Number of products with missing QCC reports: