

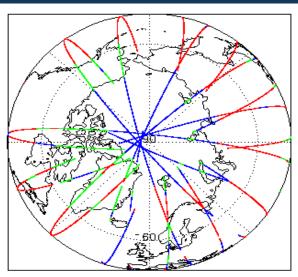
# 1. Overview

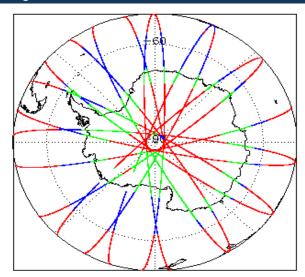
Report Production:	02-Dec-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

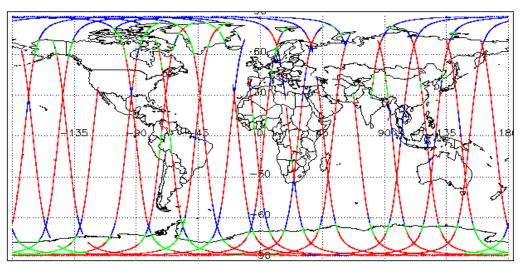
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

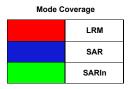
Mission / Instrument News		
29-Nov-2019	None	
30-Nov-2019	None	
01-Dec-2019	Nothing planned	

# 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
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# 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 pert 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:

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#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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#### 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.

Number of products with errors:

17

Product	Test Failed	Description
CS_OFFL_SIR_NOPN1B_20191130T014214_20191130T014359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T022107_20191130T022523_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T022633_20191130T022739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T104800_20191130T104910_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T140935_20191130T141050_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T144525_20191130T144700_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T154637_20191130T154728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T185709_20191130T185741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191130T221240_20191130T221330_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T000608_20191130T000951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T094014_20191130T094303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T095956_20191130T100351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T130317_20191130T131014_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T153807_20191130T153955_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T213633_20191130T213935_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T220335_20191130T220715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191130T221656_20191130T222516_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

0

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

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.
- > 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.

Provident Control of the Control of	To a Called	Description
Product  CS_OFFL_SIR_NOPM_2_20191130T025608_20191130T031105_C001	Test Failed  Mean Dynamic Topography (1)	Description There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20191130T034435_20191130T035731_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPM_2_20191130T155117_20191130T160521_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T000453_20191130T000607_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T004409_20191130T004623_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20191130T004708_20191130T004831_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T022107_20191130T022523_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T022633_20191130T022739_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T032029_20191130T032300_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T045937_20191130T050310_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T054107_20191130T054458_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T094954_20191130T095115_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T112924_20191130T113038_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T113540_20191130T113858_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T131015_20191130T131251_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T131444_20191130T132110_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T140532_20191130T140653_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T144800_20191130T145146_C001	พ่อลทั่งอ่อ จับท์อะ (า), พ่อลก บynamic Topography (1), Total Geocentric Ocean Tide (COT)	Indere is an error with the MSS neight (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T145858_20191130T150033_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T154446_20191130T154551_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T162745_20191130T162941_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T163759_20191130T163946_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T172359_20191130T172907_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T180717_20191130T180835_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T194844_20191130T195042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212950_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191130T213515_20191130T213633_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222846_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_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_20191130T004831_20191130T005602_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_20191130T022739_20191130T023301_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_20191130T032300_20191130T032522_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20191130T040637_20191130T041332_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_20191130T042714_20191130T043528_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_20191130T054459_20191130T055006_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
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CS_OFFL_SIR_NOPR_2_20191130T091757_20191130T091943_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_20191130T105405_20191130T105555_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_20191130T144700_20191130T144759_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20191130T151611_20191130T151811_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_20191130T153807_20191130T153955_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_20191130T172907_20191130T173115_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_20191130T185913_20191130T190418_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_20191130T202711_20191130T202800_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_20191130T203305_20191130T203413_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_20191130T203650_20191130T204619_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_20191130T221656_20191130T222516_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_20191130T235746_20191201T000531_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:

0

## 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.

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20191130T000042_20191130T000453_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_20191130T000952_20191130T002906_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_20191130T002945_20191130T003420_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_20191130T005735_20191130T010411_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_20191130T010432_20191130T013149_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_20191130T013409_20191130T013933_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_20191130T015039_20191130T020307_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_20191130T020409_20191130T022106_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_20191130T023937_20191130T024008_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_20191130T024445_20191130T025405_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_20191130T025608_20191130T031105_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_20191130T031336_20191130T031831_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_20191130T032723_20191130T033953_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_20191130T034435_20191130T035731_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_20191130T043529_20191130T044948_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_20191130T045306_20191130T045745_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_20191130T050510_20191130T053107_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_20191130T053322_20191130T053850_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_20191130T073652_20191130T080748_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_20191130T081118_20191130T081612_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_20191130T081619_20191130T081948_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_20191130T082509_20191130T085753_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_20191130T091008_20191130T091249_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_20191130T091712_20191130T091756_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_20191130T091943_20191130T092051_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_20191130T094303_20191130T094426_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_20191130T095116_20191130T095642_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_20191130T100351_20191130T102603_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_20191130T102732_20191130T103755_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_20191130T104926_20191130T105158_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_20191130T110849_20191130T112510_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20191130T113038_20191130T113539_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_20191130T114230_20191130T121728_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_20191130T124024_20191130T130316_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_20191130T132219_20191130T132916_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_20191130T133356_20191130T133712_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_20191130T134348_20191130T135242_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_20191130T135331_20191130T135520_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_20191130T135721_20191130T135750_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_20191130T141053_20191130T142752_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_20191130T143003_20191130T144435_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_20191130T145146_20191130T145355_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_NOPM_2_20191130T150101_20191130T151309_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_20191130T151349_20191130T151610_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_20191130T151811_20191130T152734_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_20191130T155117_20191130T160521_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_20191130T161216_20191130T162534_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_20191130T162941_20191130T163759_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_20191130T164111_20191130T165651_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_20191130T165929_20191130T170140_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_20191130T173859_20191130T180443_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_20191130T180836_20191130T181036_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_20191130T181119_20191130T181625_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_20191130T182055_20191130T184438_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_20191130T191628_20191130T194248_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_20191130T194759_20191130T194844_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_20191130T195042_20191130T195644_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_20191130T195957_20191130T202709_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_20191130T203413_20191130T203649_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_20191130T204949_20191130T212206_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_20191130T212950_20191130T213515_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_20191130T213935_20191130T214308_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_20191130T221331_20191130T221656_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_20191130T222852_20191130T223755_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_20191130T224039_20191130T230206_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_20191130T230846_20191130T230953_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_20191130T230957_20191130T231406_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_20191130T231940_20191130T233032_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_20191130T233059_20191130T233542_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.

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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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.
OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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.
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.
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.
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.
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range Quality, OCOG 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  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG

## 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.

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20191130T000453_20191130T000607_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_20191130T004409_20191130T004623_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_20191130T014214_20191130T014359_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_20191130T022107_20191130T022523_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_20191130T022633_20191130T022739_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_20191130T032029_20191130T032300_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_20191130T033953_20191130T034434_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_20191130T035731_20191130T035805_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_20191130T040108_20191130T040316_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_20191130T045937_20191130T050310_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_20191130T054107_20191130T054458_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_20191130T055006_20191130T055043_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_20191130T055951_20191130T060127_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_20191130T060226_20191130T060447_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

Company   April   2 - 2000   1807   1809   2 - 2000   1807   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1809   2 - 2000   1807   1807   1809   2 - 2000   1807   1807   1807   1809			
An including Country   1000   Annex (Resp. Daily 1904 Country 1905 C	CS_OFFL_SIR_NOPN_2_20191130T073032_20191130T073055_C001	OCOG Backscatter Quality	
Comparison	CS_OFFL_SIR_NOPN_2_20191130T080954_20191130T081118_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR_OFF_SR_NON_2_2010108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_2010108T106109_2010130T106300_2010  CR_OFF_SR_NON_2_2010108T106109_2010130T106300_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106300_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106300_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106300_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106201_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_2010  CR_OFF_SR_NON_2_20101108T106109_2010130T106100_201001001000000000000000000000000	CS_OFFL_SIR_NOPN_2_20191130T093213_20191130T093253_C001		
## Company	CS_OFFL_SIR_NOPN_2_20191130T094954_20191130T095115_C001		
CB_OFFL_SIR_NOPIL_2_2019130T100012_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100010_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10001_C019130T100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10010_C019130T100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10010_C019130T100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10010_C019130T100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T10010_C019130T100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T1001001_C019130T100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T100100010011001100011_C0191  CB_OFFL_SIR_NOPIL_2_2019130T100100000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20191130T104800_20191130T104910_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_20191130T10004_2019130T10004_2019130T10004_0019130T10004_0019130T10004_0019130T10004_0019130T10004_0019130T100195_0019130T10195_001	CS_OFFL_SIR_NOPN_2_20191130T105159_20191130T105330_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NOPN_2_20191130T131044_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T131444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T131444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13219_C001  CS_OFFL_SR_NOPN_2_2019130T13444_2019130T13478_C001  CS_OFFL_SR_NOPN_2_2019130T134072_2019130T15479_C001  CS_OFFL_SR_NOPN_2_2019130T17649_2019130T15479_C001  CS_OFFL_SR_NOPN_2_2019130T17649_2019130T17693_C001  CS_OFFL_SR_NOPN_2_2019130T17649_2019130T17693_C001  CS_OFFL_SR_NOPN_2_2019130T17649_2019130T17693_C001  CS_OFFL_SR_NOPN_2_2019130T17644_2019130T17693_C001  CS_OFFL_SR_NOPN_2_2019130T17664_2019130T17693_C001  CS_OFFL_SR_NOPN_2_2019130T13064_2019130T17693_C001  CS_OFFL_SR_NO	CS_OFFL_SIR_NOPN_2_20191130T105617_20191130T105810_C001		, ,
SB_OFFL_SIR_NOPN_2_20191130T131015_20191130T13210_0001  CS_OFFL_SIR_NOPN_2_20191130T131444_20191130T13210_0001  CS_OFFL_SIR_NOPN_2_20191130T13444_20191130T13210_0001  CS_OFFL_SIR_NOPN_2_20191130T13444_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T13444_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134442_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134442_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134442_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134459_2001  CS_OFFL_SIR_NOPN_2_20191130T134459_2001  CS_OFFL_SIR_NOPN_2_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134591_0001  CS_OFFL_SIR_NOPN_2_20191130T134592_0001  CS_OFFL_SIR_NOPN_2_20191130T134592_0001  CS_OFFL_SIR_NOPN_2_20191130T134592_0001  CS_OFFL_SIR_NOPN_2_20191130T134592_0001  CS_OFFL_SIR_NOPN_2_20191130T135954_0001  CS_OFFL_SIR_NOPN_2_20191130T135954_20191130T135119_0001  CS_OFFL_SIR_NOPN_2_20191130T135954_20191130T135119_0001  CS_OFFL_SIR_NOPN_2_20191130T135954_20191130T130T135119_0001  CS_OFFL_SIR_NOPN_2_20191130T135954_20191130T135119_0001  CS_OFFL_SIR_NOPN_2_20191130T13564_20191130T135119_0001  CS_OFFL_SIR_NOPN_2_20191130T13564_20191130T125000_0001  CS_OFFL_SIR_NOPN_2_20191130T13564_20191130T1250000_0001  CS_OFFL_SIR_NOPN_2_20191130T13564_20191130T125000_0001  C	CS_OFFL_SIR_NOPN_2_20191130T110604_20191130T110849_C001		
OCCG Rankscarter Quality PLRM, OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for one or more records.  The OCCG Range and Backscarter Quality Flags have been set for o	CS_OFFL_SIR_NOPN_2_20191130T131015_20191130T131251_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Affreder Range Quality PLRM, COG Affreder Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been set for one or more records.  The OCGG Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPN_2_20191130T131444_20191130T132110_C001		
OCOG Backscatter Quality Flags CS_OFFL_SIR_NOFN_2_20191130T196837_20191130T194728_CD01  CS_OFFL_SIR_NOFN_2_20191130T196837_20191130T101240_CD01  CS_OFFL_SIR_NOFN_2_20191130T196837_20191130T101240_CD01  CS_OFFL_SIR_NOFN_2_20191130T107033_20191130T101240_CD01  CS_OFFL_SIR_NOFN_2_20191130T107033_20191130T101240_CD01  CS_OFFL_SIR_NOFN_2_20191130T170446_20191130T170833_CD01  CS_OFFL_SIR_NOFN_2_20191130T170446_20191130T170833_CD01  CS_OFFL_SIR_NOFN_2_20191130T170446_20191130T170400_CD01  CS_OFFL_SIR_NOFN_2_20191130T170446_20191130T170400_CD01  CS_OFFL_SIR_NOFN_2_20191130T190383_CD01  CS_OFFL_SIR_NOFN_2_20191130T190383_CD01  CS_OFFL_SIR_NOFN_2_20191130T190383_CD01  CS_OFFL_SIR_NOFN_2_20191130T190383_CD01  CS_OFFL_SIR_NOFN_2_20191130T190383_CD01  CS_OFFL_SIR_NOFN_2_20191130T190383_CD01  CS_OFFL_SIR_NOFN_2_20191130T190384_2019130T19042_CD01  CS_OFFL_SIR_NOFN_2_20191130T190384_2019130T19030T19042_CD01  CS_OFFL_SIR_NOFN_2_20191130T190344_2019130T19030	CS_OFFL_SIR_NOPN_2_20191130T152734_20191130T152921_C001		
and Backscatter Quality PLRN, OCOG Allimeter Range and Backscatter Quality PLRN, ocog Allimeter Range and Backscatter Quality PLRN, ocog Allimeter Range and Backscatter Quality PLRN, ocog Backscatter Quality PLRN, oco	CS_OFFL_SIR_NOPN_2_20191130T154446_20191130T154551_C001		
CS_OFFL_SIR_NOPN_2_20191130T100435_20191130T19533_C001  CS_OFFL_SIR_NOPN_2_20191130T170445_20191130T170833_C001  CS_OFFL_SIR_NOPN_2_20191130T170445_20191130T170833_C001  CS_OFFL_SIR_NOPN_2_20191130T18036_20191130T18119_C001  CS_OFFL_SIR_NOPN_2_20191130T18036_20191130T18119_C001  CCCCA Altimeter Range Guality PLRM, CCCG Backscatter Quality PLRM, CCCG Altimeter Range and Backscatter Qual	CS_OFFL_SIR_NOPN_2_20191130T154637_20191130T154728_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_20191130T172359_2019130T172397_C001  CS_OFFL_SIR_NOPN_2_20191130T172359_2019130T17200T1201  CS_OFFL_SIR_NOPN_2_20191130T181036_2019130T181119_C001  CS_OFFL_SIR_NOPN_2_20191130T181036_2019130T181119_C001  CS_OFFL_SIR_NOPN_2_20191130T194844_2019130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T194844_2019130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T195644_2019130T195815_C001  CS_OFFL_SIR_NOPN_2_20191130T212827_2019130T212830_C001  CS_OFFL_SIR_NOPN_2_20191130T212827_2019130T212830_C001  CS_OFFL_SIR_NOPN_2_20191130T212828_2019130T212830_C001  CS_OFFL_SIR_NOPN_2_20191130T212828_2019130T212590_C001  CS_OFFL_SIR_NOPN_2_20191130T212828_2019130T212590_C001  CS_OFFL_SIR_NOPN_2_20191130T22846_C001  CS_OFFL_SIR_NOPN_2_20191130T22856_2019130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_2019130T233530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235500_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235500_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_2019130T235530_C001  CCS_OFFL_SIR_NOPR_2_20191130T235504_2019130T2355	CS_OFFL_SIR_NOPN_2_20191130T160703_20191130T161216_C001		
CS_OFFL_SIR_NOPN_2_20191130T12359_20191130T18119_C001  CS_OFFL_SIR_NOPN_2_20191130T181036_20191130T181119_C001  CS_OFFL_SIR_NOPN_2_20191130T194844_20191130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T195044_20191130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T195044_20191130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T195044_20191130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T195044_20191130T195042_C001  CS_OFFL_SIR_NOPN_2_20191130T195044_20191130T195045_C001  CS_OFFL_SIR_NOPN_2_20191130T195044_20191130T195050_C001  CS_OFFL_SIR_NOPN_2_20191130T124567_20191130T1215050_C001  CS_OFFL_SIR_NOPN_2_20191130T212505_C001  CS_OFFL_SIR_NOPN_2_20191130T212505_C001  CS_OFFL_SIR_NOPN_2_20191130T212505_C001  CS_OFFL_SIR_NOPN_2_20191130T22505_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CCS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230506_C001  CCS_OFFL_SIR_NOPN_2_20191130T2305504_20191130T230506_C001  CCS_OFFL_SIR_NOPN_2_20191130T2305504_20191130T230506_C001  CCS_OFFL_SIR_NOPN_2_20191130T230506_20191130T230506_C001  CCS_OFFL_SIR_NOPN_2_20191130T230506_20191130T230506_C001  CCS_OFFL_SIR_NOPN_2_20191130T205506_20191130T230506_C001  CCS_OFFL_SIR_NOPN_2_20191130T205506_20191130T205506_C001  CCS_OFFL_SIR_NOPN_2_20191130T205506_20191130T205506_C001  CCS_OFFL_SIR_NOPN_2_20191130T205506_20191130T205506_C001  CCCS_OFFL_SIR_NOPR_2_20191130T0000606_20191130T0000651_C001  CCCS_OFFL_SIR_NOPR_2_20191130T0000606_20191130T0000651_C001  CCCS_OFFL_SIR_NOPR_2_20191130T0000606_20191130T0000651_C001  CCCS_OFFL_SIR_NOPR_2_20191130T0000606_20191130T0000651_C001  CCCS_OFFL_SIR_NOPR_2_20191130T000606_20191130T0000651_C001  CCCS_OFFL_SIR_NOPR_2_20191130T000606_20191130T0000651_C001  CCCS_OFFL	CS_OFFL_SIR_NOPN_2_20191130T170445_20191130T170833_C001		
OCG Backscatter Quality PLRM. OCG Altimeter Range SSHA. SWH and Backscatter Quality PLRM. OCG Altimeter Range and Backscatter Quality PLRM. OCG Altimeter Range SSHA. SWH and Backscatter Quality PLRM. OCG Altimeter Range SSHA. SWH and Backscatter Quality PLRM. OCG Altimeter Range and Backscatter Quality PLRM. OCG Backscatter Quality PL	CS_OFFL_SIR_NOPN_2_20191130T172359_20191130T172907_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20191130T195644_20191130T195815_C001  CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212950_C001  CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212950_C001  CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212500_C001  CS_OFFL_SIR_NOPN_2_20191130T214928_20191130T215050_C001  CS_OFFL_SIR_NOPN_2_20191130T214928_20191130T215050_C001  CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T230543_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T230543_20191130T230986_C001  CS_OFFL_SIR_NOPN_2_20191130T235534_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T000608_20191130T000601_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T000601_C001  CS_OFFL_SIR_NOPR_2_201911	CS_OFFL_SIR_NOPN_2_20191130T181036_20191130T181119_C001		
CS_OFFL_SIR_NOPN_2_20191130T195644_20191130T195815_C001  Alimeter Range and Backscatter Quality PLRM, COCG Alimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212550_C001  CS_OFFL_SIR_NOPN_2_20191130T214928_20191130T215050_C001  CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222546_C001  CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222546_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFF	CS_OFFL_SIR_NOPN_2_20191130T194844_20191130T195042_C001		
CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212950_C001  and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20191130T214928_20191130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T004831_20191130T005602_C001  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_2019113	CS_OFFL_SIR_NOPN_2_20191130T195644_20191130T195815_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_20191130T222516_20191130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235500_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T000508_20191130T000505_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and B	CS_OFFL_SIR_NOPN_2_20191130T212627_20191130T212950_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_20191130T230526_20191130T230846_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T0004831_20191130T0005602_C001  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality F	CS_OFFL_SIR_NOPN_2_20191130T214928_20191130T215050_C001	OCOG Altimeter Range Quality PLRM,	
CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T0004831_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T0004831_20191130T0005602_C001  CS_OFFL_SIR_NOPR_2_20191130T0004831_20191130T0005602_C001  CCG_Altimeter Range Quality PLRM, OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOGA Itimeter Range and Backscatter Quality PLRM, OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOGA Itimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags and the OCOGA Itimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20191130T222516_20191130T222846_C001		
OCOG Backscatter Quality  Document Pland  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Pland  and the OCOG Altimeter Range and Backscatter Quality  PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality  PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Pland  Document Pland  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Pland  OCOG Altimeter Range and Backscatter Quality  PLRM  OCOG Altimeter Range and Backscatter Quality  PLRM  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Pland  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags  OCOG Altimeter Range and Backscatter Quality Pland  OCOG Altimeter Range and Backscatter Quality Flags  OCOG Altimeter Range and Backscatter Qualit	CS_OFFL_SIR_NOPN_2_20191130T230526_20191130T230846_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPR_2_20191130T000608_20191130T000951_C001  CS_OFFL_SIR_NOPR_2_20191130T0004831_20191130T0005602_C001  and Backscatter Quality PLRM, 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCO	CS_OFFL_SIR_NOPN_2_20191130T233543_20191130T233908_C001		
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Ra	CS_OFFL_SIR_NOPN_2_20191130T235504_20191130T235530_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Ocean Altimeter Range, SSHA, SWH 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_20191130T000608_20191130T000951_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPR_2_20191130T004831_20191130T005602_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPR_2_20191130T014400_20191130T015039_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_20191130T022739_20191130T023301_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_20191130T032300_20191130T032522_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_20191130T040637_20191130T041332_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_20191130T042714_20191130T043528_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_20191130T053107_20191130T053236_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_20191130T054459_20191130T055006_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_20191130T080748_20191130T080954_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_20191130T082130_20191130T082508_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_20191130T085910_20191130T085948_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_20191130T091757_20191130T091943_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_20191130T092052_20191130T092334_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_20191130T094426_20191130T094953_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_20191130T095957_20191130T100351_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_20191130T105405_20191130T105555_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_20191130T112510_20191130T112924_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_20191130T113858_20191130T114230_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_20191130T123006_20191130T123130_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_20191130T153807_20191130T153955_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_20191130T165651_20191130T165929_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_20191130T170141_20191130T170348_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_20191130T172907_20191130T173115_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_20191130T173754_20191130T173859_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_20191130T180443_20191130T180717_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_20191130T185511_20191130T185709_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_20191130T194248_20191130T194639_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_20191130T203650_20191130T204619_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_20191130T212206_20191130T212627_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_20191130T220951_20191130T221224_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_20191130T221656_20191130T222516_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_20191130T230206_20191130T230526_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_20191130T231530_20191130T231940_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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: 17

# 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:

#### 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.