



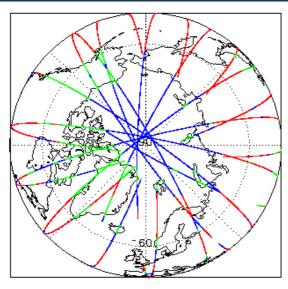
# 1. Overview

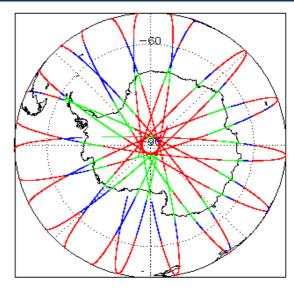
Report Production:	13-Jun-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP L1B & L2 Science Data	

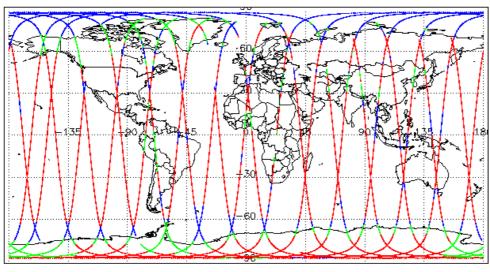
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement 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
QCC Error/ Warning Check	See Section 7.1, 7.2

Mission / Ins	trument News
10-Jun-202	None
11-Jun-202	None
12-Jun-202	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

#### 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 NOPR and NOPN 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:

0

#### 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:

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#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20220611T113829_20220611T114043_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220611T045010_20220611T045528_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220611T054814_20220611T055426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220611T063016_20220611T063416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220611T163756_20220611T164012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220611T195156_20220611T195647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T023349_20220611T023722_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T041131_20220611T041833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T063758_20220611T064113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T081239_20220611T082108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T094931_20220611T095832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T112903_20220611T113249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T145457_20220611T145859_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T181456_20220611T181633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T225505_20220611T225709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220611T230609_20220611T231408_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220611T113829_20220611T114043_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_20220611T004505_20220611T004822_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_20220611T005334_20220611T005458_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_20220611T013556_20220611T013651_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_20220611T023242_20220611T023348_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_20220611T031459_20220611T031615_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_20220611T045010_20220611T045528_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_20220611T054814_20220611T055426_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_20220611T063016_20220611T063416_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_20220611T080849_20220611T081238_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_20220611T094320_20220611T094931_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), 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_20220611T104741_20220611T104858_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_20220611T114728_20220611T114934_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_20220611T132043_20220611T132203_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_20220611T135726_20220611T135854_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_20220611T140332_20220611T140632_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_20220611T153810_20220611T154044_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_20220611T163318_20220611T163439_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_20220611T171335_20220611T171934_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_20220611T172649_20220611T172826_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_20220611T181243_20220611T181456_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_20220611T190556_20220611T190750_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_20220611T195156_20220611T195647_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_20220611T212404_20220611T212507_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_20220611T221442_20220611T221602_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_20220611T221618_20220611T221839_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_20220611T235434_20220611T235747_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_20220610T235640_20220611T000427_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_20220611T013652_20220611T014602_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_20220611T031615_20220611T032336_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_20220611T045529_20220611T050049_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_20220611T063416_20220611T063758_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_20220611T063758_20220611T064113_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_20220611T081239_20220611T082108_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_20220611T094931_20220611T095832_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_20220611T112903_20220611T113249_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_20220611T113249_20220611T113829_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_20220611T114651_20220611T114727_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_20220611T165543_20220611T165757_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_20220611T195723_20220611T195922_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_NOPR_2_20220611T212704_20220611T213221_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_20220611T225505_20220611T225709_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_20220611T230609_20220611T231408_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:

# 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220611T000825_20220611T004142_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_20220611T004822_20220611T005333_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_20220611T005723_20220611T011506_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_20220611T014602_20220611T022021_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_20220611T022613_20220611T022822_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_20220611T022829_20220611T023241_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_20220611T023723_20220611T030208_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_20220611T031333_20220611T031459_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_20220611T032336_20220611T032912_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_20220611T032942_20220611T033759_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_20220611T034426_20220611T034432_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_20220611T034448_20220611T035317_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_20220611T035515_20220611T035946_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_20220611T040202_20220611T040721_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_20220611T040740_20220611T040947_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_20220611T041833_20220611T043055_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_20220611T043249_20220611T044124_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_20220611T044251_20220611T045009_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_20220611T050253_20220611T050823_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_20220611T051229_20220611T052200_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_20220611T052402_20220611T053120_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_20220611T053233_20220611T053841_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_20220611T054128_20220611T054622_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_20220611T054626_20220611T054633_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_20220611T054639_20220611T054650_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_20220611T055459_20220611T055723_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_20220611T061406_20220611T062037_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_20220611T070219_20220611T071732_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_20220611T072110_20220611T072550_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_20220611T072556_20220611T072605_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_20220611T072611_20220611T072737_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_20220611T073253_20220611T075530_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_20220611T075532_20220611T080642_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_20220611T083151_20220611T085702_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_20220611T090027_20220611T090451_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_20220611T090511_20220611T090835_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_20220611T091204_20220611T093832_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_20220611T094028_20220611T094320_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_20220611T101028_20220611T103628_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_20220611T103925_20220611T104405_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_20220611T104409_20220611T104740_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_20220611T105202_20220611T112527_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_20220611T113829_20220611T114043_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_20220611T120949_20220611T121218_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_20220611T121910_20220611T122432_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_20220611T123120_20220611T125238_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_20220611T125524_20220611T130611_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_20220611T131644_20220611T132042_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_20220611T133645_20220611T134134_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_20220611T134322_20220611T135350_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_20220611T135855_20220611T140331_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_20220611T141037_20220611T141542_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_20220611T141555_20220611T144657_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_20220611T150218_20220611T150643_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_20220611T150814_20220611T153111_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_20220611T154555_20220611T154700_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_20220611T155011_20220611T155540_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_20220611T155732_20220611T160659_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_20220611T161139_20220611T161855_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_20220611T164022_20220611T164600_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_20220611T164727_20220611T165543_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_20220611T165757_20220611T171300_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

Copyright   Copy	CS_OFFL_SIR_NOPM_2_20220611T172229_20220611T172648_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
on Standard Room 2 2020041119204 2020051119205 (2011)  Standard Room 2 2020041119204 2020051119205 (2011)  COLORIL SR NOYM 2 2020041119204 2020051119201 (2011)  COLORIL SR NOYM 2 2020041119204 2020051119205 (2011)  COLORIL SR NOYM 2 2020041119204 (2011)  COLORIL SR NOYM 2 2020041119204 (2011)  COLORIL SR NOYM 2 2020041119204 (2011)  COLORIL SR NOYM 2 2020041119205 (2011)  C	CS_OFFL_SIR_NOPM_2_20220611T172921_20220611T173532_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. OFFL SR NOPM 2 0000011110000 (2020011110001 C001)	CS_OFFL_SIR_NOPM_2_20220611T173653_20220611T174328_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NOPM_2_020200111180004_02020011118004_020200111180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_02020111180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_000011180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_000011180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_000011180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_000011180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_000011180041_0001  CS_OFFL_SR_NOPM_2_020200111180041_000011180040_00001180040_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180040_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_00001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_000001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_000001180060_0001  CS_OFFL_SR_NOPM_2_020200111180041_000001180060_0001  CS_OFFL_SR_NOPM_2_020200111180040_000001180060_0001  CS_OFFL_SR_NOPM_2_020200111180040_000001180060_0001  CS_OFFL_SR_NOPM_2_0202001111200400_00000111200400_0001  CS_OFFL_SR_NOPM_2_0202001111200400_00000111200400_0001  CS_OFFL_SR_NOPM_2_020200111200400_00000111200400_0001  CS_OFFL_SR_NOPM_2_020200	CS_OFFL_SIR_NOPM_2_20220611T174639_20220611T180051_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Section   Sect	CS_OFFL_SIR_NOPM_2_20220611T182306_20220611T182630_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SIR NOPM 2 2022811T180304 2022811T195341 C001  Soar Altimeter Reging Called Society Country (1997) and Society (1997) and S	CS_OFFL_SIR_NOPM_2_20220611T182642_20220611T182911_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM 2_202206117180340_202206117190555_0001  CS_OFFL_SIR_NOPM 2_20220611719047_202206117190555_0001  CS_OFFL_SIR_NOPM 2_20220611719047_202206117190555_0001  CS_OFFL_SIR_NOPM 2_20220611719047_202206117190555_0001  CS_OFFL_SIR_NOPM 2_20220611719047_202206117190556_0001  CS_OFFL_SIR_NOPM 2_20220611719047_202206117190556_0001  CS_OFFL_SIR_NOPM 2_202206117190484_202206117190570_0001  CS_OFFL_SIR_NOPM 2_202206117190484_202206117190570_0001  CS_OFFL_SIR_NOPM 2_202206117201807_202206117203001_0001  CS_OFFL_SIR_NOPM 2_202206117203001_0001  CS_OFFL_SIR_NOPM 2_202206117203001_00001  CS_OFFL_SIR_NOPM 2_202206117203001_00001  CS_OFFL_SIR_NOPM 2_20220611720	CS_OFFL_SIR_NOPM_2_20220611T183034_20220611T183521_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Deap Attender Range, SSHA, SWH and Backscatter Quality Flags have been self or one or more records.  CS_OFFL_SIR_NOPM_2_202206117196849_202206117195732_CD01  CS_OFFL_SIR_NOPM_2_20220611726869_20220611720301_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720301_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720301_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720401_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720402_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720402_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720400_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720900_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720900_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720900_CD01  CS_OFFL_SIR_NOPM_2_20220611720890_20220611720900_CD01  CS_OFFL_SIR_NOPM_2_20220611720900_CD01  CS_OFFL_SIR_NOPM_2_20220611720900	CS_OFFL_SIR_NOPM_2_20220611T183902_20220611T185341_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGA Althreter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_202206117190491_2001  CS_OFFL_SIR_NOPM_2_20220611720107_20220611720391.C001  CS_OFFL_SIR_NOPM_2_20220611720107_20220611720391.C001  CS_OFFL_SIR_NOPM_2_20220611720107_20220611720391.C001  CS_OFFL_SIR_NOPM_2_20220611720107_20220611720391.C001  CS_OFFL_SIR_NOPM_2_20220611720392_2020611720392.C001  CS_OFFL_SIR_NOPM_2_20220611720392_2020611720393.C001  CS_OFFL_SIR_NOPM_2_20220611720392_2020611720393.C001  CS_OFFL_SIR_NOPM_2_20220611720392_2020611720393.C001  CS_OFFL_SIR_NOPM_2_20220611720393.C001  CS_OFFL_SIR_NOPM_2_20220611720	CS_OFFL_SIR_NOPM_2_20220611T185724_20220611T190555_C001		
Backscatter Quality  For one or more records  CS_OFFL_SIR_NOPM_2_20220611720307_0220611720301_C001  CS_OFFL_SIR_NOPM_2_202206117203820_20220611720301_C001  CS_OFFL_SIR_NOPM_2_202206117203820_20220611720502_C001  CS_OFFL_SIR_NOPM_2_202206117203820_20220611720502_C001  CS_OFFL_SIR_NOPM_2_202206117203820_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_2020611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_2020611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_2020611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_2020611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C001  CS_OFFL_SIR_NOPM_2_20220611720502_C0000  CS_OFFL_SIR_NOPM_2_20220611720505_C0000  CS_OFFL_SIR_NOPM_2_20220611720505_C00000  CS_OFFL_SIR_NOPM_2_20220611720505_C000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20220611T190847_20220611T193056_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Plags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20220611720390_202206117204401_C001  CS_OFFL_SIR_NOPM_2_20220611720390_202206117205022_C001  CS_OFFL_SIR_NOPM_2_202206117204829_202206117205022_C001  CS_OFFL_SIR_NOPM_2_202206117204829_202206117205022_C001  CS_OFFL_SIR_NOPM_2_202206117204829_202206117205022_C001  CS_OFFL_SIR_NOPM_2_202206117204829_202206117205022_C001  CS_OFFL_SIR_NOPM_2_20220611720504_202206117205022_C001  CS_OFFL_SIR_NOPM_2_20220611720504_20220611720131_C001  CS_OFFL_SIR_NOPM_2_202206117214545_20220611722131_C001  CS_OFFL_SIR_NOPM_2_202206117214545_20220611722131_C001  CS_OFFL_SIR_NOPM_2_202206117221839_202206117222430_C001  CS_OFFL_SIR_NOPM_2_202206117221839_202206117222430_C001  CS_OFFL_SIR_NOPM_2_202206117221839_20220611722400_C001  CS_OFFL_SIR_NOPM_2_202206117224603_20220611722400_C001  CS_OFFL_SIR_NOPM_2_202206117224603_202206117223035_C001  CS_OFFL_SIR_NOPM_2_20220611723034_C001  CCS_OFFL_SIR_NOPM_2_20220611723034_C001	CS_OFFL_SIR_NOPM_2_20220611T195648_20220611T195723_C001		
Description of the process of the control of the process of the control of the process of the pr	CS_OFFL_SIR_NOPM_2_20220611T201007_20220611T203301_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality (CS_OFFL_SIR_NOPM_2_202206117205204_20220611721152_CO01  Altimeter Range, SSHA, SWH and Backscatter Quality (CS_OFFL_SIR_NOPM_2_202206117205204_20220611721152_CO01)  CS_OFFL_SIR_NOPM_2_202206117214545_20220611722131_CO01  CS_OFFL_SIR_NOPM_2_202206117214545_20220611722131_CO01  CS_OFFL_SIR_NOPM_2_202206117214545_20220611722131_CO01  CS_OFFL_SIR_NOPM_2_202206117214545_202206117222433_CO01  CS_OFFL_SIR_NOPM_2_20220611722139_202206117222433_CO01  CS_OFFL_SIR_NOPM_2_202206117224603_20220611722453_CO01  CS_OFFL_SIR_NOPM_2_202206117224603_202206117225055_CO01  CS_OFFL_SIR_NOPM_2_202206117224603_202206117225055_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_202206117230454_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723044_CO01  CS_OFFL_SIR_NOPM_2_202206117230158_20220611723	CS_OFFL_SIR_NOPM_2_20220611T203920_20220611T204401_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_202206117214545_202206117221131_C001  CS_OFFL_SIR_NOPM_2_202206117214545_202206117222433_C001  CS_OFFL_SIR_NOPM_2_202206117221839_202206117222433_C001  CS_OFFL_SIR_NOPM_2_202206117221839_202206117222433_C001  CS_OFFL_SIR_NOPM_2_202206117222650_2022061172224501_C001  CS_OFFL_SIR_NOPM_2_20220611722650_202206117224601_C001  CS_OFFL_SIR_NOPM_2_202206117224603_202206117225035_C001  CS_OFFL_SIR_NOPM_2_202206117230156_202206117230315_C001  CS_OFFL_SIR_NOPM_2_202206117230158_202206117230315_C001  CS_OFFL_SIR_NOPM_2_202206117230158_202206117230342_C001  CS_OFFL_SIR_NOPM_2_202206117230158_202206117230342_C001  CS_OFFL_SIR_NOPM_2_202206117230158_202206117230342_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230173_202206117230442_C001  CS_OFFL_SIR_NOPM_2_202206117230174_202206117040017_C001  CS_OFFL_SIR_NOPM_2_202206117230174_2022	CS_OFFL_SIR_NOPM_2_20220611T204829_20220611T205022_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been ast for one or more records  CS_OFFL_SIR_NOPM_2_20220611T221839_20220611T222433_C001  CS_OFFL_SIR_NOPM_2_20220611T222650_20220611T222430_C001  CS_OFFL_SIR_NOPM_2_20220611T222650_20220611T2224601_C001  CS_OFFL_SIR_NOPM_2_20220611T222650_20220611T224601_C001  CS_OFFL_SIR_NOPM_2_20220611T224603_20220611T225055_C001  CS_OFFL_SIR_NOPM_2_20220611T224603_20220611T225055_C001  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T230155_C001  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T230155_C001  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T230155_C001  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T230747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220611T23044_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T0651523_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T0651523_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T0651523_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T0651523_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T0651523_20220611T0651229_C001  CS_OFFL_SIR_NOPM_2_20220611T0651523_20220611T0651229_C001  CS_OFFL_SIR_NOPM_2_2	CS_OFFL_SIR_NOPM_2_20220611T205204_20220611T211152_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20220611T222650_20220611T224601_C001  CS_OFFL_SIR_NOPM_2_20220611T222650_20220611T224601_C001  CS_OFFL_SIR_NOPM_2_20220611T224603_20220611T225035_C001  CS_OFFL_SIR_NOPM_2_20220611T224603_20220611T225035_C001  CS_OFFL_SIR_NOPM_2_20220611T2303158_20220611T230315_C001  CS_OFFL_SIR_NOPM_2_20220611T2303158_20220611T230315_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230315_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230335_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230335_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230343_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T23773_20220611T235042_C001  CS_OFFL_SIR_NOPM_2_20220611T23774_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CCGG_Altimeter Range Quality, CCGG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGG_Altimeter Range Quality, CCGG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGG_Altimeter Range Quality, CCGG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGG_Altimeter Range Quality, CCGG_Altimeter Range and Backscatter Quality Flags have been set for one or more records  CCGG_Altimete	CS_OFFL_SIR_NOPM_2_20220611T214545_20220611T221131_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20220611T235747_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T051229_	CS_OFFL_SIR_NOPM_2_20220611T221839_20220611T222433_C001		
Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T230315_C001  CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T230315_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230344_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T235042_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220611T235042_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T030324_20220611T0400201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CCS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records  CCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20220611T222650_20220611T224601_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001  CS_OFFL_SIR_NOPM_2_20220611T230713_20220611T235042_C001  CS_OFFL_SIR_NOPM_2_20220611T237713_20220611T235042_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T0400201_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T055402_C001  CCG_Altimeter Range Quality, OCOG_Backscatter Q	CS_OFFL_SIR_NOPM_2_20220611T224603_20220611T225035_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20220611T231713_20220611T235042_C001  CS_OFFL_SIR_NOPM_2_20220611T235747_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  and Backscatter Quality, 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  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T065402_C001  CCG Altimeter Range Quality, OCOG Backscatter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Range Ra	CS_OFFL_SIR_NOPM_2_20220611T230158_20220611T230315_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20220611T231713_20220611T235042_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPM_2_20220611T235747_20220612T000305_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T040027_20220611T040201_C001  CS_OFFL_SIR_NOPM_2_20220611T050823_20220611T051229_C001	CS_OFFL_SIR_NOPM_2_20220611T230324_20220611T230434_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20220611T040027_20220611T040201_C001  Backscatter Quality  Gr one or more records  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records  CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T051229_C001  CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T055402_C001  CS_OFFL_SIR_NOPN_2_20220611T065153_20220611T065402_C001  CS_OFFL_SIR_NOPN_2_20220611T065153_20220611T065402_C001	CS_OFFL_SIR_NOPM_2_20220611T231713_20220611T235042_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  for one or more records  CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T051229_C001  Backscatter Quality  OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set  OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPM_2_20220611T235747_20220612T000305_C001		
Backscatter Quality for one or more records  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPN_2_20220611T040027_20220611T040201_C001		
	CS_OFFL_SIR_NOPN_2_20220611T050823_20220611T051229_C001		
	CS_OFFL_SIR_NOPN_2_20220611T065153_20220611T065402_C001		

CS_OFFL_SIR_NOPN_2_20220611T090835_20220611T090950_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_20220611T112731_20220611T112902_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_20220611T155730_20220611T155732_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20220611T032912_20220611T032942_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20220611T054623_20220611T054625_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20220611T153111_20220611T153810_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

# L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20220611T000635_20220611T000824_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_20220611T005334_20220611T005458_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_20220611T011506_20220611T011825_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_20220611T013556_20220611T013651_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_20220611T022220_20220611T022612_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_20220611T041015_20220611T041130_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_20220611T045010_20220611T045528_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_20220611T050049_20220611T050114_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_20220611T050823_20220611T051229_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_20220611T060430_20220611T060550_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_20220611T060621_20220611T061222_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_20220611T062907_20220611T062933_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_20220611T063016_20220611T063416_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_20220611T065153_20220611T065402_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_20220611T071857_20220611T072110_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_20220611T072737_20220611T072920_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_20220611T080642_20220611T080804_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_20220611T080849_20220611T081238_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_20220611T082814_20220611T083151_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_20220611T094320_20220611T094931_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_20220611T095832_20220611T095902_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_20220611T104741_20220611T104858_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_20220611T131557_20220611T131634_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_20220611T133323_20220611T133645_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_20220611T135726_20220611T135854_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_20220611T145859_20220611T145950_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_20220611T154700_20220611T154904_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_20220611T171335_20220611T171934_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_20220611T172649_20220611T172826_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_20220611T181243_20220611T181456_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_20220611T181633_20220611T181851_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_20220611T182113_20220611T182202_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_20220611T183524_20220611T183901_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_20220611T185537_20220611T185723_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_20220611T190556_20220611T190750_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_20220611T193237_20220611T193538_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_20220611T195156_20220611T195647_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_20220611T203512_20220611T203633_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_20220611T211630_20220611T211736_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_20220611T221442_20220611T221602_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_20220611T231408_20220611T231523_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_20220610T235640_20220611T000427_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_20220611T004142_20220611T004505_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20220611T005459_20220611T005722_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20220611T013344_20220611T013555_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_20220611T013652_20220611T014602_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_20220611T022021_20220611T022220_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_20220611T023349_20220611T023722_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_20220611T031615_20220611T032336_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_20220611T041131_20220611T041833_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_20220611T043055_20220611T043248_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_20220611T045529_20220611T050049_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_20220611T052200_20220611T052402_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_20220611T062644_20220611T062907_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_20220611T063416_20220611T063758_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_20220611T064126_20220611T064133_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_20220611T065503_20220611T070012_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_20220611T081239_20220611T082108_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_20220611T094931_20220611T095832_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_20220611T095902_20220611T100125_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_20220611T104859_20220611T105201_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_20220611T112903_20220611T113249_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_20220611T113249_20220611T113829_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_20220611T114044_20220611T114201_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_20220611T121526_20220611T121743_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_20220611T122742_20220611T123120_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_20220611T132607_20220611T132804_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_20220611T135351_20220611T135726_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_20220611T140700_20220611T141037_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_20220611T153111_20220611T153810_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_20220611T165543_20220611T165757_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_20220611T172827_20220611T172921_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_20220611T180052_20220611T180141_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_20220611T180556_20220611T180630_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_20220611T182220_20220611T182306_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_20220611T185342_20220611T185537_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_20220611T212507_20220611T212641_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_20220611T212704_20220611T213221_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_20220611T221131_20220611T221442_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_20220611T230031_20220611T230158_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_20220611T230609_20220611T231408_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_20220611T235043_20220611T235434_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 & 1 Hz PLRM)

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

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

Number of products with errors:

## 5.7 L2 Ocean Retracking Quality Check

## L2 Retracking Flags (20 Hz)

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

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

Number of products with errors: 60

#### L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors: