

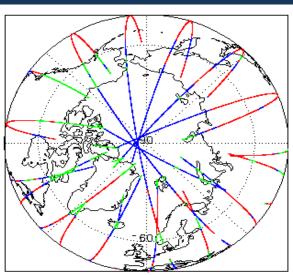
# 1. Overview

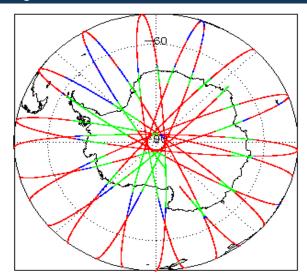
Report Production:	09-Mar-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

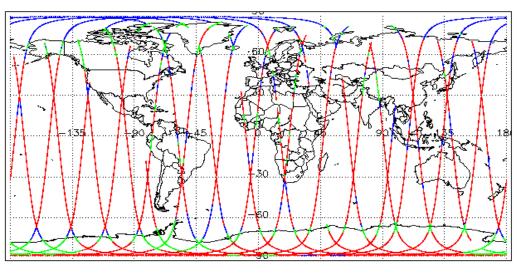
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

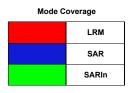
Mission / Instrument News		
05-Mar-2020	None	
06-Mar-2020	None	
07-Mar-2020	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

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

# 4. NOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

## 4.4 L1B Auxiliary Correction Error Check

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

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:

15

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200306T072050_20200306T072622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200306T160732_20200306T160812_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200306T191144_20200306T191628_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200306T194129_20200306T201437_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200306T212315_20200306T213641_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200306T213808_20200306T215355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T024836_20200306T025436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T045231_20200306T045438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T134857_20200306T135114_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T152930_20200306T153058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T192716_20200306T192805_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T224236_20200306T224537_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200306T234138_20200306T234625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200306T021454_20200306T021557_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200306T074810_20200306T074950_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:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

## 5.3 L2 Auxiliary Data File Usage Check

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

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.

Number of products with errors:

44

Product	Test Failed	Description
CS OFFI SIR NOPM 2 20200306T130150 20200306T130245 C001		

CS_OFFL_SIR_NOPN_2_20200306T002358_20200306T002616_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_20200306T003245_20200306T003600_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_20200306T011355_20200306T011726_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_20200306T035243_20200306T035400_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_20200306T045231_20200306T045438_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_20200306T052246_20200306T052412_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_20200306T052935_20200306T053242_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_20200306T062553_20200306T062638_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_20200306T070228_20200306T070424_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_20200306T070833_20200306T071203_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_20200306T084310_20200306T084545_C001	Mean Sea Suriace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc	Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20200306T093821_20200306T093942_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_20200306T101837_20200306T102432_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_20200306T103148_20200306T103326_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_20200306T111747_20200306T111836_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_20200306T112125_20200306T112349_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_20200306T121056_20200306T121254_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_20200306T125700_20200306T125843_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_20200306T143725_20200306T143808_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_20200306T152112_20200306T152337_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20200306T165931_20200306T170244_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_20200306T183734_20200306T184129_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_20200306T184659_20200306T184824_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_20200306T192716_20200306T192805_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_20200306T202456_20200306T202638_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_20200306T210323_20200306T210459_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_20200306T210840_20200306T210936_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_20200306T220245_20200306T220500_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_20200306T224236_20200306T224537_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_20200306T233302_20200306T233452_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_20200306T234138_20200306T234625_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_20200306T044725_20200306T044738_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_20200306T143204_20200306T143725_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_20200306T160009_20200306T160211_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_20200306T161110_20200306T161907_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_20200306T174939_20200306T175841_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_20200306T193039_20200306T193549_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_20200306T210936_20200306T211518_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_20200306T211532_20200306T211656_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_20200306T213641_20200306T213808_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_20200306T223804_20200306T223953_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_20200306T224850_20200306T224901_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_20200306T224901_20200306T225538_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 (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.

0

Number of products with errors: 90

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200306T000709_20200306T002352_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_20200306T003115_20200306T003245_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_20200306T003640_20200306T011149_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_20200306T013654_20200306T020326_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_20200306T020450_20200306T020954_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_20200306T021557_20200306T024337_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_20200306T024538_20200306T024836_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_20200306T031217_20200306T031440_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_20200306T031445_20200306T032041_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_20200306T032044_20200306T034301_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_20200306T034429_20200306T034908_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_20200306T034911_20200306T035243_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_20200306T035516_20200306T043029_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_20200306T044326_20200306T044518_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_20200306T044738_20200306T045131_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_20200306T050308_20200306T050313_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_20200306T051437_20200306T051721_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_20200306T051920_20200306T052226_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_20200306T052413_20200306T052933_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_20200306T053444_20200306T055743_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_20200306T060029_20200306T060940_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_20200306T062207_20200306T062553_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_20200306T064149_20200306T064637_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_20200306T064824_20200306T070130_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_20200306T070424_20200306T070833_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_20200306T071352_20200306T072041_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_20200306T072050_20200306T072621_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_20200306T072846_20200306T074659_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_20200306T080611_20200306T081147_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_20200306T081318_20200306T083612_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_20200306T084545_20200306T084738_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_20200306T085416_20200306T090119_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_20200306T090129_20200306T091201_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_20200306T091642_20200306T092347_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_20200306T094520_20200306T094812_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_20200306T094851_20200306T095103_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_20200306T095230_20200306T100045_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_20200306T100704_20200306T101804_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_20200306T101816_20200306T101837_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_20200306T102433_20200306T102652_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_20200306T102727_20200306T103148_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_20200306T103326_20200306T104033_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_20200306T104149_20200306T104829_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.

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CS_OFFL_SIR_NOPM_2_20200306T105031_20200306T110512_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_20200306T112810_20200306T113015_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_20200306T113145_20200306T113413_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_20200306T113535_20200306T113942_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_20200306T114343_20200306T115955_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_20200306T120221_20200306T121055_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_20200306T121301_20200306T123558_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_20200306T131512_20200306T133913_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_20200306T134133_20200306T134323_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_20200306T134419_20200306T134857_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_20200306T135150_20200306T135603_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_20200306T135721_20200306T142131_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_20200306T145046_20200306T151816_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_20200306T152337_20200306T152930_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_20200306T160827_20200306T160932_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_20200306T162209_20200306T165715_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_20200306T170244_20200306T170801_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_20200306T170934_20200306T171241_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_20200306T171440_20200306T171628_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_20200306T174537_20200306T174812_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_20200306T180214_20200306T181049_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_20200306T181334_20200306T183634_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_20200306T184129_20200306T184245_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_20200306T184253_20200306T184659_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_20200306T184832_20200306T190205_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.
	Occan Altimator Banga SSUA SWU	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20200306T190353_20200306T191007_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20200306T194129_20200306T201437_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_20200306T201632_20200306T202143_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_20200306T202150_20200306T202156_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_20200306T203243_20200306T210301_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_20200306T212315_20200306T213641_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_20200306T213808_20200306T215355_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_20200306T221010_20200306T222020_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_20200306T222639_20200306T223803_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_20200306T230011_20200306T230018_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_20200306T230048_20200306T231224_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_20200306T231347_20200306T231629_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_20200306T231808_20200306T233252_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_20200306T233452_20200306T233952_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_20200306T233959_20200306T234011_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_20200306T234017_20200306T234026_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_20200306T234625_20200307T001016_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_20200306T050817_20200306T050923_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T052246_20200306T052412_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T092348_20200306T092505_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T151941_20200306T152101_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors: 81

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200306T003245_20200306T003600_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_20200306T011355_20200306T011726_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_20200306T013328_20200306T013654_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_20200306T020333_20200306T020449_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.

0.000   January Responsibilities   200000000000000000000000000000000000			
COOR - BRANCH A 200000001100010   COOR - Allerent Rough SSN - SSN	CS_OFFL_SIR_NOPN_2_20200306T021338_20200306T021454_C001		
E. G.P. J. R. NOPH 2. 2000067130419. 2000007130450. 2001  C.R. DEFT, J.R. NOPH 2. 2000067130451. 2000007130340. 2001  C.R. DEFT, J.R. NOPH 2. 2000067130451. 2001007130340. 2001  C.R. DEFT, J.R. NOPH 2. 2000067130451. 2001007130340. 2001  C.R. DEFT, J.R. NOPH 2. 2000067130451. 20010071703040. 2001  C.R. DEFT, J.R. NOPH 2. 2000067130431. 2001007170304. 2001	CS_OFFL_SIR_NOPN_2_20200306T024836_20200306T025436_C001		, ,
## 60000 Allerander Fougs and Descention Coulty Flags have been set for one or pre- page 19 (2014) 19 (201	CS_OFFL_SIR_NOPN_2_20200306T030338_20200306T030415_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column	CS_OFFL_SIR_NOPN_2_20200306T035243_20200306T035400_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CIR_OFFI_SIR_NOPN_2_P20020000100000010000001 COURS   C	CS_OFFL_SIR_NOPN_2_20200306T044611_20200306T044724_C001		
CS_OFFL_SIR_NOPN_2_202000981192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_20200381192892_2020038119289_20200381192892_20200381192892_20200381192892_2020038119289_202003	CS_OFFL_SIR_NOPN_2_20200306T050313_20200306T050335_C001		
CB_OFFL_SR_NOPN_2_20200061109327_20200061109325_C001  CB_OFFL_SR_NOPN_2_20200061009327_2020006109104_C001  CB_OFFL_SR_NOPN_2_20200061009327_20200061009104_C001  CB_OFFL_SR_NOPN_2_20200061009327_20200061009104_C001  CB_OFFL_SR_NOPN_2_20200061009327_20200061009104_C001  CB_OFFL_SR_NOPN_2_202000061101657_20200061109320_C001  CB_OFFL_SR_NOPN_2_20200061101657_20200061109320_C001  CB_OFFL_SR_NOPN_2_20200061101657_20200061109320_C001  CB_OFFL_SR_NOPN_2_20200061101657_20200061109320_C001  CB_OFFL_SR_NOPN_2_20200061101657_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_20200061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_2020061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_2020061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_2020061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_2020061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_2020061109320_C001  CB_OFFL_SR_NOPN_2_2020006110920_2020061109320_C001  CB_OFFL_SR_NOPN_2_2020006110	CS_OFFL_SIR_NOPN_2_20200306T052246_20200306T052412_C001		, ,
OCC Backscatter Quality  The OCCOR Range and Backscatter Quality Flags have been set for one or occord.  CS_OFIL_SIR_NOPN_2_202000061709226_202003061709424_C001  CS_OFIL_SIR_NOPN_2_202000061709226_202003061709424_C001  CS_OFIL_SIR_NOPN_2_202000061709236_202003061709424_C001  CS_OFIL_SIR_NOPN_2_202000061709236_202003061709424_C001  CS_OFIL_SIR_NOPN_2_202000061709236_202003061709436_C001  CS_OFIL_SIR_NOPN_2_20200006170936207_202003061709436_C001  CS_OFIL_SIR_NOPN_2_202000061709436_C001  CS_OFIL	CS_OFFL_SIR_NOPN_2_20200306T052935_20200306T053242_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_NORN_2_20000000T107023_2000000T17010_C010  CS_OFFL_SIR_NORN_2_20000000T07023_2000000T17100_C010  CS_OFFL_SIR_NORN_2_20000000T07023_2000000T17010_C010  CS_OFFL_SIR_NORN_2_20000000T107033_2000000T17010_C010  CS_OFFL_SIR_NORN_2_20000000T100137_2000000T100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100137_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100137_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100137_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100137_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_2000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NORN_2_20000000T1100135_C010  CS_OFFL_SIR_NO	CS_OFFL_SIR_NOPN_2_20200306T062553_20200306T062638_C001		
GS_OFFL_SIR_NOPN_2_22200306T070232_20200306T071233_C010  All packascaster Causity PLRA. COCG. All packascaster Causity PLR	CS_OFFL_SIR_NOPN_2_20200306T063827_20200306T064115_C001		
and Backscarter Quality PLRM. COS and all backscarter Quality PLRM. COS and a larger of the cost of one or more records.  CS_OFFL_SIR_NOPN_2_20200306T08406_20200306T08445_CO01  CS_OFFL_SIR_NOPN_2_20200306T084310_20200306T08445_CO01  CS_OFFL_SIR_NOPN_2_20200306T084310_20200306T08445_CO01  CS_OFFL_SIR_NOPN_2_20200306T085207_20200306T08540_LO001  CS_OFFL_SIR_NOPN_2_20200306T10837_20200306T105432_CO01  CS_OFFL_SIR_NOPN_2_20200306T10837_20200306T105432_CO01  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_CO01  CS_OFFL_SIR_NOPN_2_20200306T111404_20200306T111434_CO01  CS_OFFL_SIR_NOPN_2_20200306T114044_20200306T114434_CO01  CS_OFFL_SIR_NOPN_2_20200306T114044_20200306T114434_CO01  CS_OFFL_SIR_NOPN_2_20200306T11404_20200306T114343_CO01  CS_OFFL_SIR_NOPN_2_20200306T114044_20200306T114343_CO01  CS_OFFL_SIR_NOPN_2_20200306T114044_20200306T114343_CO01  CS_OFFL_SIR_NOPN_2_20200306T114044_20200306T114343_CO01  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_CO01  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125835_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_20200306T134134_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1341404_CO01  CS_OFFL_SIR_NOPN_2_20200306T1541414_CO01  CS_OFFL	CS_OFFL_SIR_NOPN_2_20200306T070228_20200306T070424_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 PLRM, COCOG 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 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 have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T11747_20200306T11838_C001  CS_OFFL_SIR_NOPN_2_20200306T11747_20200306T11838_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T174019_C00056T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T174019_C00056T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T176012_20200306T170215_C001  CS_OFFL_SIR_NOPN_2_20200306T176012_20200306T170215_C001  CS_OFFL_SIR_NOPN_2_20200306T176012_20200306T170215_C001  CCS_OFFL_SIR_NOPN_2_20200306T176012_20200306T17015_C001  CCS_OFFL_SIR_NOPN_2_20200306T176012_20200306T17015_C001  CCS_OFFL_SIR_NOPN_2_20200306T176012_20200306T17015_C001  CCS_OFFL_SIR_NOPN_2_20200306T176012_20200306T17015_C001  CCS_OFFL_SIR_NOPN_2_20200306T1760	CS_OFFL_SIR_NOPN_2_20200306T070833_20200306T071203_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_20200306T10837_20200306T108434_C001  CS_OFFL_SIR_NOPN_2_20200306T10837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_C001  Almorter Range and Backscarter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_C001  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_C001  CS_OFFL_SIR_NOPN_2_20200306T111742_20200306T111836_C001  CS_OFFL_SIR_NOPN_2_20200306T111742_20200306T11234_C001  CS_OFFL_SIR_NOPN_2_20200306T112338_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T1123738_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1123738_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112549_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112537_C001  CS_OFFL_SIR_NOPN_2_20200306T1125700_20200306T112537_C001  CCOCA Altimeter Range Quality PLRM. CCOCG Backscatter Quality PLRM. CCOCG Backscatter Quality PLRM. CCOCG Backscatter Quality PLRM. CCOCG Altimeter Range Albackscatter Quality Plags have been set for one or more records.  CCCCA Altimeter Range Albackscatter Quality PLRM. CCCCG Altimeter Range Albackscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20200306T172510_20200306T172544_C001  CCCCA Altimeter Range Quality PLRM. CCCC Backscatter Quality PLRM. CCCC Backscatter Quality PLRM. CCCC Backscatter Quality PLRM. CCCC Altimeter Range and Backscatter Quality Plags have been set for one or more records.  CCCCA Altimeter Range and Backscatter Quality Plags have been	CS_OFFL_SIR_NOPN_2_20200306T080406_20200306T080457_C001	OCOG Backscatter Quality	
GS_OFFL_SIR_NOPN_2_20200306T10837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111886_C001  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T112849_C001  CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T11235_20200306T1235_20200306T170305_20200	CS_OFFL_SIR_NOPN_2_20200306T084310_20200306T084545_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Backscatter Quality  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_C001  CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_C001  CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T1123738_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T1123738_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T125730_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CCCG Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Qu	CS_OFFL_SIR_NOPN_2_20200306T085207_20200306T085404_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T1140343_C001  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T1140343_C001  CS_OFFL_SIR_NOPN_2_20200306T123738_20200306T1140343_C001  CS_OFFL_SIR_NOPN_2_20200306T123738_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T123738_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T174015_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C0	CS_OFFL_SIR_NOPN_2_20200306T101837_20200306T102432_C001		, ,
CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001  CS_OFFL_SIR_NOPN_2_20200306T123738_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T170244_C001  Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range a	CS_OFFL_SIR_NOPN_2_20200306T111747_20200306T111836_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20200306T123738_20200306T124059_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_C001  CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_	CS_OFFL_SIR_NOPN_2_20200306T112125_20200306T112349_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_20200306T125700_20200306T125843_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Altimeter Range Quality PLRM, OCOG Altimeter Range Altimet	CS_OFFL_SIR_NOPN_2_20200306T114024_20200306T114343_C001		, ,
CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T165931_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T165931_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T	CS_OFFL_SIR_NOPN_2_20200306T123738_20200306T124059_C001		
CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001  CS_OFFL_SIR_NOPN_2_20200306T165931_20200306T170244_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170915_C001  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170915_C001  CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_C001  CS_OFFL_SIR_NOPN_2_20200306T175932_20200306T180001_C001	CS_OFFL_SIR_NOPN_2_20200306T125700_20200306T125843_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  DCS_OFFL_SIR_NOPN_2_20200306T165931_20200306T170244_C001  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20200306T134010_20200306T134132_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been been one or more records.  CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_C001  CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_C001  CS_OFFL_SIR_NOPN_2_20200306T175932_20200306T180001_C001  Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Qu	CS_OFFL_SIR_NOPN_2_20200306T152112_20200306T152337_C001		
CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_C001  CS_OFFL_SIR_NOPN_2_20200306T175932_20200306T180001_C001  And Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  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 have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20200306T165931_20200306T170244_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  OCOG 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 have been	CS_OFFL_SIR_NOPN_2_20200306T170801_20200306T170916_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG  Altimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPN_2_20200306T172011_20200306T172015_C001		
PLRM set for one or more records.	CS_OFFL_SIR_NOPN_2_20200306T175932_20200306T180001_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_20200306T191007_20200306T191037_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records.
CS_OFFL_SIR_NOPN_2_20200306T191056_20200306T191144_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPN_2_20200306T210323_20200306T210459_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T210840_20200306T210936_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T211518_20200306T211532_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T222402_20200306T222426_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPN_2_20200306T224236_20200306T224537_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T224636_20200306T224758_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 F and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPN_2_20200306T233302_20200306T233452_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records.
CS_OFFL_SIR_NOPN_2_20200306T234138_20200306T234625_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records.
CS_OFFL_SIR_NOPR_2_20200306T000010_20200306T000114_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for comore records.
CS_OFFL_SIR_NOPR_2_20200306T000117_20200306T000509_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T013231_20200306T013321_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T030415_20200306T030511_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T044725_20200306T044738_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T045158_20200306T045223_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T051306_20200306T051437_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T074731_20200306T074756_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T074810_20200306T074950_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T074953_20200306T075005_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T080005_20200306T080406_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T083956_20200306T084310_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T104829_20200306T105008_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T111959_20200306T112125_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 Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T112350_20200306T112504_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 Fland the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_NOPR_2_20200306T123558_20200306T123738_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.
CS_OFFL_SIR_NOPR_2_20200306T124333_20200306T124406_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for omore records.

CS_OFFL_SIR_NOPR_2_20200306T130245_20200306T130422_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_20200306T143004_20200306T143142_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_20200306T143204_20200306T143725_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_20200306T144850_20200306T145046_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_20200306T151817_20200306T151941_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_20200306T160529_20200306T160732_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_20200306T160932_20200306T161044_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_20200306T161110_20200306T161907_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_20200306T162017_20200306T162025_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_20200306T174939_20200306T175841_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_20200306T175904_20200306T175932_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_20200306T180001_20200306T180213_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_20200306T193039_20200306T193549_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_20200306T193549_20200306T193827_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_20200306T210936_20200306T211518_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_20200306T212146_20200306T212208_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_20200306T212220_20200306T212224_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_20200306T212236_20200306T212251_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_20200306T213641_20200306T213808_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_20200306T220500_20200306T221010_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_20200306T222427_20200306T222639_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_20200306T223804_20200306T223953_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_20200306T224537_20200306T224636_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.

## 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:

64

## L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

128