

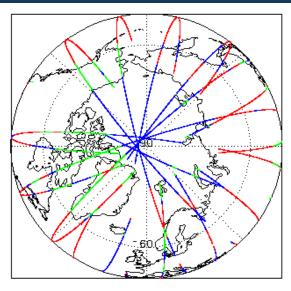
## 1. Overview

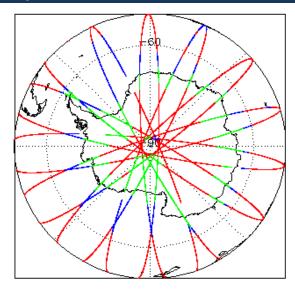
Report Production:	07-May-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

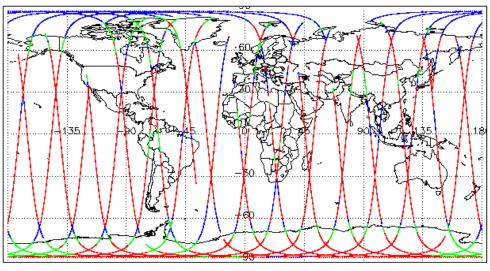
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

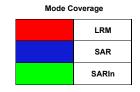
Mission / Inst	Mission / Instrument News	
05-May-2021	None	
06-May-2021	None	
07-May-2021	Nothing planned	

# 2. Global Coverage









## 3. Instrument Configuration

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

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

## 4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

#### 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:

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. This is being investigated and will be updated in the next SW update.

Number of products with errors:

0

#### 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:

14

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210506T004949_20210506T005928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210506T132350_20210506T133303_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T002629_20210506T003046_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T003154_20210506T003301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T020817_20210506T021159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T085328_20210506T085436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T090242_20210506T090339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T152931_20210506T153437_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210506T170240_20210506T170313_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210506T012823_20210506T013043_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210506T170039_20210506T170240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210506T183840_20210506T184020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210506T184201_20210506T185154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210506T202235_20210506T203053_C001	Loss of Echo	The tracking echo is missing for one or more records

#### 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

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.

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 Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > 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:

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Product	Test Failed	Description	

CS_OFFL_SIR_NOPM_2_20210506T183159_20210506T183244_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_20210506T002629_20210506T003046_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_20210506T003154_20210506T003301_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_20210506T012551_20210506T012823_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_20210506T020817_20210506T021159_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_20210506T030501_20210506T030628_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_20210506T034631_20210506T035022_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_20210506T044611_20210506T044753_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_20210506T075520_20210506T075642_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_20210506T080209_20210506T080445_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_20210506T093452_20210506T093606_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_20210506T094108_20210506T094427_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_20210506T111544_20210506T111820_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_20210506T112013_20210506T112639_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_20210506T121101_20210506T121222_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_20210506T125325_20210506T125716_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_20210506T135017_20210506T135122_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_20210506T143316_20210506T143512_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_20210506T152931_20210506T153437_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_20210506T161249_20210506T161408_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_20210506T175417_20210506T175615_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	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_20210506T193202_20210506T193524_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_20210506T194049_20210506T194207_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_20210506T203053_20210506T203420_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_20210506T211102_20210506T211422_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_20210506T003301_20210506T003823_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_20210506T012823_20210506T013043_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210506T020147_20210506T020236_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_NOPR_2_20210506T021200_20210506T021859_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_20210506T023238_20210506T023900_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_20210506T035023_20210506T035529_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_20210506T072325_20210506T072511_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_20210506T125232_20210506T125325_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210506T132141_20210506T132258_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_20210506T134349_20210506T134439_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_20210506T134444_20210506T134525_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_20210506T161054_20210506T161249_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_20210506T170446_20210506T170951_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_20210506T183244_20210506T183336_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_20210506T183840_20210506T184020_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_20210506T184201_20210506T185154_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_20210506T202235_20210506T203053_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_20210506T220321_20210506T221105_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_20210506T234223_20210506T234810_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

0

#### 5.6 L2 Measurement Quality Flag Check

### L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

00

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210505T235601_20210506T000829_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_20210506T000933_20210506T002629_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_20210506T003046_20210506T003154_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_20210506T004054_20210506T004103_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_20210506T004949_20210506T005928_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_20210506T010131_20210506T011626_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_20210506T011859_20210506T012353_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_20210506T013244_20210506T014516_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_20210506T014957_20210506T020147_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_20210506T024052_20210506T025537_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_20210506T025830_20210506T030308_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_20210506T031005_20210506T033630_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_20210506T033847_20210506T034415_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_20210506T041009_20210506T043038_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_20210506T043129_20210506T043443_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_20210506T043840_20210506T044223_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Dues Allente Regis (19th, 20th 19th 19th 20th 19th 19th 19th 19th 19th 19th 19th 19	CS_OFFL_SIR_NOPM_2_20210506T044919_20210506T051640_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.
Besout County   Cou	CS_OFFL_SIR_NOPM_2_20210506T054838_20210506T061501_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Security Control (1997)   Security Control (	CS_OFFL_SIR_NOPM_2_20210506T061645_20210506T062138_C001		
So DRIL DRIN NORM 2 ACCINOCATIONS IN CORD And the Control Region and Education County in Control Incident County of the Control Region and Education County in Control Incident County in Control Region and Education County in Control Region County in Control Region and Education County in Control Region County in Control Region and Education County in Control Region County in County in County in Control Region County in Cou	CS_OFFL_SIR_NOPM_2_20210506T062145_20210506T062514_C001		
Description (Control of the Control	CS_OFFL_SIR_NOPM_2_20210506T062901_20210506T070318_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_CPFL_SIR_NOPAL_2_202100601174810_20210606117483_CD01	CS_OFFL_SIR_NOPM_2_20210506T071624_20210506T071735_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seg. OFFL, SIR, NOPM 2, 20210500T0014930, 20210500T014930, 20210 CS_OFFL_SIR, NOPM 2, 20210500T016152, 20210500T016009, 20011 CS_OFFL_SIR, NOPM 2, 20210500T016009, 2	CS_OFFL_SIR_NOPM_2_20210506T072519_20210506T072618_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20110500T0176142_20110500T0105000_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105020_20105  CS_OFFL_SIR_NOPM_2_20110500T0105020_20105  CS_OFFL_SIR_NOPM_2_20110500T0105020_20105  CS_OFFL_SIR_NOPM_2_20110500T0105020_20105  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20101  CS_OFFL_SIR_NOPM_2_20110500T0105000_2010500T0104143_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20110500T0104143_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20110500T0104143_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20110500T0104143_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20110500T0104143_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20110500T0104143_C0101  CS_OFFL_SIR_NOPM_2_20110500T0105000_20110500T0104100_20110010010010000000000000000000	CS_OFFL_SIR_NOPM_2_20210506T074830_20210506T074953_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sociation Cuality  CS_OFFL_SIR_NOPM_2_20216060T063922_20210506T083936_C001  CS_OFFL_SIR_NOPM_2_20216060T063256_20210506T083956_C001  CS_OFFL_SIR_NOPM_2_20216060T063256_20210506T084142_C001  CS_OFFL_SIR_NOPM_2_20216060T063256_20210506T084142_C001  CS_OFFL_SIR_NOPM_2_20216060T063256_20210506T084142_C001  CS_OFFL_SIR_NOPM_2_20210506T063256_20210506T085731_C001  CS_OFFL_SIR_NOPM_2_20210506T063050_20210506T085731_C001  CS_OFFL_SIR_NOPM_2_20210506T085051_20210506T085731_C001  CS_OFFL_SIR_NOPM_2_20210506T085051_20210506T085731_C001  CS_OFFL_SIR_NOPM_2_20210506T085051_20210506T085731_C001  CS_OFFL_SIR_NOPM_2_20210506T085051_20210506T085237_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T098237_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T098237_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T098237_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T098237_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T100205_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T100205_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T100205_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T100205_C001  CS_OFFL_SIR_NOPM_2_20210506T085057_20210506T100205_C001  CS_OFFL_SIR_NOPM_2_20210506T104503_20210506T100205_C001  CS_OFFL_SIR_NOPM_2_20210506T104503_20210506T110040_C001  CS_OFFL_SIR_NOPM_2_20210506T110404_C001  CS_OFFL_SIR_NOPM_2_20210506T110404_C001  CS_OFFL_SIR_NOPM_2_20210506T110404_C001  CS_OFFL_SIR_NOPM_2_20210506T110404_C001  CS_OFFL_SIR_NOPM_2_20210506T110405_C001  CS_OFFL_SIR_NOPM_2_20210506T110405_	CS_OFFL_SIR_NOPM_2_20210506T075152_20210506T075343_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the GOCG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T083299_2021050FT08143_CO01  CS_OFFL_SIR_NOPM_2_20210506T083299_2021050FT08143_CO01  CS_OFFL_SIR_NOPM_2_20210506T08501_2021050FT08143_CO01  CS_OFFL_SIR_NOPM_2_20210506T08501_2021050FT08133_CO01  CS_OFFL_SIR_NOPM_2_20210506T08501_2021050FT08237_CO01  CS_OFFL_SIR_NOPM_2_20210506T08501_2021050FT08237_CO01  CS_OFFL_SIR_NOPM_2_20210506T085007_CO01  CS_OFFL_SIR_NOPM_2_20210506T08131_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T083207_CO01  CS_OFFL_SIR_NOPM_2_20210506T094072_CO010506T094107_CO01  CS_OFFL_SIR_NOPM_2_20210506T094072_CO010506T09407_CO01  CS_OFFL_SIR_NOPM_2_20210506T094072_CO010506T09407_CO01  CS_OFFL_SIR_NOPM_2_20210506T094072_CO010506T109407_CO01  CS_OFFL_SIR_NOPM_2_20210506T09407_CO010506T094	CS_OFFL_SIR_NOPM_2_20210506T075643_20210506T080209_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or not records.  CS_OFFL_SIR_NOPM_2_20210506T085501_20210506T085731_C001  CS_OFFL_SIR_NOPM_2_20210506T085501_20210506T08337_C001  CS_OFFL_SIR_NOPM_2_20210506T08501_20210506T093337_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T093337_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T093337_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T093257_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T0925_C001  CS_OFFL_SIR_NOPM_2_20210506T08507_20210506T102025_C001  CS_OFFL_SIR_NOPM_2_20210506T084732_20210506T102025_C001  CS_OFFL_SIR_NOPM_2_20210506T04553_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T114553_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T114533_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114335_C001  CS_OFFL_SIR_NOPM_2_20210506T114217_20210506T114335_C001  CS_OFFL_SIR_NOPM_2_20210506T114217_20210506T114335_C001  CCS_OFFL_SIR_NOPM_2_20210506T114217_20210506T114335_C001  CCS_OFFL_SIR_NOPM_2_20210506T114217_20210506T114335_C001  CCS_OFFL_SIR_NOPM_2_20210506T114217_20210506T114335_C001  CCS_OFFL_SIR_NOPM_2_20210506T114315_C0010  CCS_OFFL_SIR_NOPM_2_20210506T114315_C001001115855_C001  CCS_OFFL_SIR_NOPM_2_20210506T114315_C001001115855_C001  CCS_OFFL_SIR_NOPM_2_20210506T114315_C001001115855_C001  CCS_OFFL_SIR_NOPM_2	CS_OFFL_SIR_NOPM_2_20210506T080832_20210506T083056_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210506T091415_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T091415_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T093607_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T093607_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T093607_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T093607_20210506T093237_C001  CS_OFFL_SIR_NOPM_2_20210506T093607_20210506T094107_C001  CS_OFFL_SIR_NOPM_2_20210506T094722_20210506T102055_C001  CS_OFFL_SIR_NOPM_2_20210506T094722_20210506T102055_C001  CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T102055_C001  CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T110205_C001  CS_OFFL_SIR_NOPM_2_20210506T111203_C001  CS_OFFL_SIR_NOPM_2_20210506T111203_C0010  CS_OFFL_SIR_NOPM_2_20210506T111203_C001000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20210506T083259_20210506T084143_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T093007_20210506T094107_C001  CS_OFFL_SIR_NOPM_2_20210506T09407_20210506T094107_C001  CS_OFFL_SIR_NOPM_2_20210506T094072_20210506T102025_C001  CS_OFFL_SIR_NOPM_2_20210506T094722_20210506T102025_C001  CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T1110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T1110846_C001  CS_OFFL_SIR_NOPM_2_20210506T111275_20210506T111224_C001  CS_OFFL_SIR_NOPM_2_20210506T111275_20210506T111224_C001  CS_OFFL_SIR_NOPM_2_20210506T11423_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11423_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11425_C001000111435_C001  CS_OFFL_SIR_NOPM_2_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T11424_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001  CS_OFFL_SIR_NOPM_2_20210506T112500_C001	CS_OFFL_SIR_NOPM_2_20210506T085501_20210506T085731_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T1102025_C001  CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T1102025_C001  CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T110203_C001  CS_OFFL_SIR_NOPM_2_20210506T111203_C001  CS_OFFL_SIR_NOPM_2_20210506T11203_C001  CS_OFFL_SIR_NOPM_2_20210506T11203_C001  CS_OFFL_SIR_NOPM_2_20210506T11203_C001  CS_OFFL_SIR_NOPM_2_20210506T11203_C001  CS_OFFL_SIR_NOPM_2_20210506T1203_C001  CS_OFFL_SIR_NOPM_2_20210506T12050_C001  CS_OFFL	CS_OFFL_SIR_NOPM_2_20210506T091415_20210506T093237_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 and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T11820_20210506T112013_C001  CS_OFFL_SIR_NOPM_2_20210506T114223_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114435_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114435_C001  CS_OFFL_SIR_NOPM_2_20210506T1142122_20210506T114506_C001  CS_OFFL_SIR_NOPM_2_20210506T1142122_20210506T115506_C001  CS_OFFL_SIR_NOPM_2_20210506T112122_20210506T112506_C001  CS_OFFL_SIR_NOPM_2_20210506T112122_20210506T112506_C001  CS_OFFL_SIR_NOPM_2_20210506T112122_20210506T112506_C001  CS_OFFL_SIR_NOPM_2_20210506T11212333_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T11212333_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125333_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125333_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_0210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125533_020	CS_OFFL_SIR_NOPM_2_20210506T093607_20210506T094107_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T111820_2010506T112013_C001  CS_OFFL_SIR_NOPM_2_20210506T1112725_20210506T11224_C001  CS_OFFL_SIR_NOPM_2_20210506T1112725_20210506T114224_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114224_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114585_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114585_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T1121222_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T1121222_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T1121222_20210506T112506_C001  CS_OFFL_SIR_NOPM_2_20210506T1121222_20210506T112506_C001  CS_OFFL_SIR_NOPM_2_20210506T112505_20210506T112506_C001  CS_OFFL_SIR_NOPM_2_20210506T112503_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112503_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112503_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T112533_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1125007_C001  CS_OFFL_S	CS_OFFL_SIR_NOPM_2_20210506T094722_20210506T102025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210506T112725_20210506T114224_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114224_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T11435_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T11435_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T114917_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T1121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T1215533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1215533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1215533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T12505_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125033_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125033_20210506T125007	CS_OFFL_SIR_NOPM_2_20210506T104553_20210506T110846_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  CS_OFFL_SIR_NOPM_2_20210506T114233_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114242_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114245_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T115558_C001  CS_OFFL_SIR_NOPM_2_20210506T114917_20210506T115558_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121550_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T121550_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T121550_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  Altimeter Range 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.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quali	CS_OFFL_SIR_NOPM_2_20210506T111820_20210506T112013_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114435_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114435_C001  CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114435_C001  CS_OFFL_SIR_NOPM_2_20210506T114917_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T114917_20210506T115858_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T1213533_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125507_C001  CS_OFFL_SIR_NOPM_2_20210506T125508_C001  CS_OFFL_SIR_NOPM_2_20210506T125506T125508_C001  CS_OFFL_SIR_NOPM_2_20210506T125506T125508_C001  CS_OFFL_SIR_NOPM	CS_OFFL_SIR_NOPM_2_20210506T112725_20210506T114224_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T11435_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been 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_NOPM_2_20210506T121222_20210506T121506_C001  Ocean Altimeter Range 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 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_NOPM_2_20210506T125517_20210506T125007_C001  OCOG Altimeter Range Quality, OCOG Altimeter Range 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_20210506T114233_20210506T114242_C001		
CS_OFFL_SIR_NOPM_2_20210506T114917_20210506T115858_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001  CS_OFFL_SIR_NOPM_2_20210506T121650_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T121650_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125007_C001  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T1255717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001	CS_OFFL_SIR_NOPM_2_20210506T114245_20210506T114435_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20210506T121506_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20210506T121650_20210506T123320_C001  CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001  CS_OFFL_SIR_NOPM_2_20210506T125533_20210506T125007_C001  Backscatter Quality  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG  Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001	CS_OFFL_SIR_NOPM_2_20210506T114917_20210506T115858_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210506T121650_20210506T123320_C001  and Backscatter Quality, OCOG Altimeter Range 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 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210506T121222_20210506T121506_C001		
CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.  CS_OFFL_SIR_NOPM_2_20210506T125537_20210506T125926_C001  CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001	CS_OFFL_SIR_NOPM_2_20210506T121650_20210506T123320_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20210506T123533_20210506T125007_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20210506T125717_20210506T125926_C001		

CS_OFFL_SIR_NOPM_2_20210506T130014_20210506T130428_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_20210506T130627_20210506T131839_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_20210506T131904_20210506T132140_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_20210506T132350_20210506T133303_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_20210506T135122_20210506T135206_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_20210506T140019_20210506T141045_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_20210506T141745_20210506T143138_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_20210506T143512_20210506T144330_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_20210506T144602_20210506T150229_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_20210506T150500_20210506T150712_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_20210506T154432_20210506T154750_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_20210506T154752_20210506T161054_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_20210506T161651_20210506T162156_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_20210506T162535_20210506T165014_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_20210506T172213_20210506T174942_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_20210506T175615_20210506T180217_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_20210506T180403_20210506T183156_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_20210506T184020_20210506T184201_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_20210506T185521_20210506T192840_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_20210506T193525_20210506T194049_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_20210506T194313_20210506T194842_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_20210506T200607_20210506T200631_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_20210506T201903_20210506T202235_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_20210506T203421_20210506T204330_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_20210506T204615_20210506T210823_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_20210506T211422_20210506T211529_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_20210506T211534_20210506T211941_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_20210506T212230_20210506T213525_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_20210506T213634_20210506T214117_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_20210506T221320_20210506T224644_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_20210506T224933_20210506T225428_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_20210506T225448_20210506T225816_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_20210506T230528_20210506T233649_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_20210506T235610_20210507T000411_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_20210506T004612_20210506T004810_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_20210506T034415_20210506T034538_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_20210506T091127_20210506T091224_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_20210506T135445_20210506T135651_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_20210506T162156_20210506T162435_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_20210506T021200_20210506T021859_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_20210506T115858_20210506T120003_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_20210506T134332_20210506T134344_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_20210506T201534_20210506T201756_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_20210506T235206_20210506T235609_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 (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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210506T002629_20210506T003046_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_20210506T004612_20210506T004810_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_20210506T011716_20210506T011858_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_20210506T012551_20210506T012823_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_20210506T014516_20210506T014957_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_20210506T020817_20210506T021159_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_20210506T043612_20210506T043840_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_20210506T044611_20210506T044753_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_20210506T053558_20210506T053621_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_20210506T062514_20210506T062656_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_20210506T070319_20210506T070435_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_20210506T070516_20210506T070634_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_20210506T085328_20210506T085436_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_20210506T091127_20210506T091224_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_20210506T112013_20210506T112639_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_20210506T121101_20210506T121222_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_20210506T125056_20210506T125232_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_20210506T125325_20210506T125716_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_20210506T130428_20210506T130603_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_20210506T141234_20210506T141745_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_20210506T151016_20210506T151403_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_20210506T152931_20210506T153437_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_20210506T162156_20210506T162435_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_20210506T185154_20210506T185521_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_20210506T194049_20210506T194207_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_20210506T195503_20210506T195625_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_20210506T203053_20210506T203420_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_20210506T211102_20210506T211422_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_20210506T003301_20210506T003823_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_20210506T004354_20210506T004421_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_20210506T012823_20210506T013043_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.

	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_NOPR_2_20210506T020147_20210506T020236_C001	OCOG Backscatter Quality	more records.
CS_OFFL_SIR_NOPR_2_20210506T021200_20210506T021859_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_20210506T023238_20210506T023900_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_20210506T030834_20210506T031005_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_20210506T033630_20210506T033805_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_20210506T035023_20210506T035529_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_20210506T043443_20210506T043612_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_20210506T044754_20210506T044918_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_20210506T053621_20210506T053853_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_20210506T062715_20210506T062901_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_20210506T071735_20210506T071946_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_20210506T072325_20210506T072511_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_20210506T075344_20210506T075520_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_20210506T080523_20210506T080832_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_20210506T085934_20210506T090123_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_20210506T093237_20210506T093452_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_20210506T094427_20210506T094722_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_20210506T110846_20210506T111544_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_20210506T115858_20210506T120003_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_20210506T123320_20210506T123533_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_20210506T132301_20210506T132341_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_20210506T134444_20210506T134525_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_20210506T135256_20210506T135445_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_20210506T135651_20210506T135735_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_20210506T143138_20210506T143315_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_20210506T150229_20210506T150500_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_20210506T150712_20210506T150925_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_20210506T153442_20210506T153735_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.
C5_OFFL_SIR_NOPR_2_202103001170039_202103001170240_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_20210506T170313_20210506T170426_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 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 OFFI SIR NOPR 2 20210506T174943 20210506T175212 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_20210506T183244_20210506T183336_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_20210506T184201_20210506T185154_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_20210506T192840_20210506T193202_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_20210506T200911_20210506T201253_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_20210506T201534_20210506T201756_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_20210506T202235_20210506T203053_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_20210506T204331_20210506T204615_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_20210506T210823_20210506T211101_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_20210506T220321_20210506T221105_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_20210506T233649_20210506T233711_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_202105061234223_202105061234810_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

Number of products with errors: 171

#### 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

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

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

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

Number of products with errors: 128

### 7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	164	164	3	161	0
SIR_NOPR1B	109	109	0	109	0
SIR_NOPN1B	90	90	3	87	0
SIR_NOPM_2	164	164	114	50	0
SIR_NOPR_2	109	109	27	80	2
SIR_NOPN_2	87	87	34	53	0

### 7.1 QCC Errors

#### Number of QCC reports with errors:

5

Total number of	foccurrences	of each	error

Product Type RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2 2	2	2	2							

Test Description Key:						
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				

## 7.2 QCC Warnings

#### Number of QCC reports with warnings

1631

Total number	of occi	urrences o	of each	warning
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	Total Hambol of Goodingtones of Gasti Haming							
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
SIR_NOPM1B	161	0	0	0	0	0	0	
SIR_NOPM_2	0	0	36	35	0	42	0	
SIR_NOPN1B	86	0	0	0	0	0	0	
SIR_NOPN_2	0	0	8	25	3	23	24	
SIR_NOPR1B	109	0	0	0	0	0	0	
SIR_NOPR_2	0	2	32	44	1	35	26	

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	30	0	0	0	0	26
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	18	0	0	21	0	25	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	13	0	50	0	62	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	5	26	0	4	32
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	21	12	34	47	26	23
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	44	0	2	60	28	4	34

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	0	3	0	0	0	0	
SIR_NOPN1B	0	0	1	0	39	0	
SIR_NOPN_2	23	11	0	0	0	0	
SIR_NOPR1B	0	0	0	0	109	12	
SIR_NOPR_2	51	1	1	9	0	0	

Test Description Key:							
Test Description Test name Details							
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
ВСЭПИСЛЕ	BuistCounterStep20H2NetCDF	The burst counter should be one higher with regard to the previous burst counter					
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch					
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample					
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter					
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter					

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0