

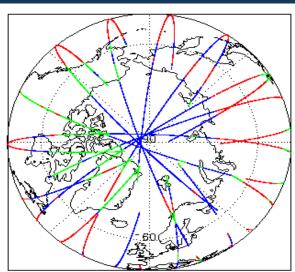
# 1. Overview

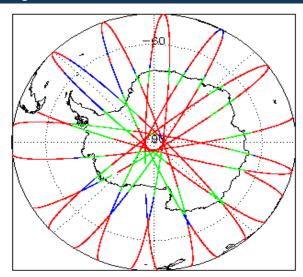
Report Production:	14-Feb-2020  CryoSat Ocean Processor	
Processor Used:		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

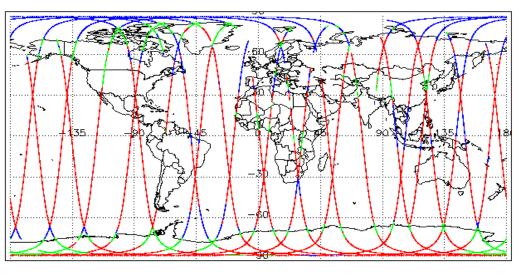
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

Mission / Instrument News	
12-Feb-2020	SIRAL unavailability on 12-Feb-2020 from 09:17:05 to 09:53:54 due to an unplanned platform anomaly.
13-Feb-2020	None
14-Feb-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 pert release

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

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#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200213T102950_20200213T104347_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 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:

45

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200213T034328_20200213T034518_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200213T202901_20200213T204120_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200213T220423_20200213T222043_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200213T000414_20200213T000626_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200213T114427_20200213T114536_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200213T132344_20200213T132937_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200213T181304_20200213T181405_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200213T222958_20200213T223150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200213T231331_20200213T231548_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200213T015040_20200213T015158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200213T052036_20200213T052132_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200213T065727_20200213T070052_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200213T095040_20200213T095511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200213T145904_20200213T150354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200213T215820_20200213T220301_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:

per or 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:

43

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200213T084524_20200213T090302_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20200213T151609_20200213T151801_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20200213T220423_20200213T222042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: IFES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20200213T000029_20200213T000325_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	-There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20200213T000414_20200213T000626_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_20200213T005034_20200213T005237_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_20200213T005921_20200213T010354_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_20200213T014057_20200213T014450_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_20200213T015007_20200213T015040_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_20200213T041937_20200213T042113_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_20200213T054945_20200213T055100_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_20200213T055635_20200213T055952_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_20200213T072902_20200213T073021_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_20200213T073530_20200213T073619_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_20200213T090955_20200213T091233_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200213T091433_20200213T092004_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_20200213T100523_20200213T101007_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_20200213T104906_20200213T105141_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_20200213T114427_20200213T114536_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_20200213T132344_20200213T132937_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_20200213T140633_20200213T140821_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_20200213T141632_20200213T141855_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_20200213T150355_20200213T150804_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20200213T164552_20200213T165010_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200213T172607_20200213T172939_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_20200213T190522_20200213T190842_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_20200213T191355_20200213T191519_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_20200213T195603_20200213T195725_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_20200213T205256_20200213T205404_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_20200213T213524_20200213T213634_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_20200213T222958_20200213T223150_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_20200213T231331_20200213T231548_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_20200213T000627_20200213T001318_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_20200213T014450_20200213T015007_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_20200213T051736_20200213T051934_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_20200213T113749_20200213T114142_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_20200213T145904_20200213T150355_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_20200213T163556_20200213T164552_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_20200213T181553_20200213T182446_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_20200213T195725_20200213T200515_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
	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_20200213T225116_20200213T225329_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_20200213T231548_20200213T232251_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200213T102950_20200213T104346_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200213T003549_20200213T005018_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_20200213T005237_20200213T005732_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_20200213T010354_20200213T013754_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_20200213T033943_20200213T034324_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_20200213T034521_20200213T040932_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_20200213T042247_20200213T045724_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_20200213T052250_20200213T052956_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_20200213T053330_20200213T053500_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_20200213T054250_20200213T054918_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_20200213T055100_20200213T055634_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_20200213T060204_20200213T063550_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_20200213T065158_20200213T065208_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_20200213T070052_20200213T070239_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_20200213T070906_20200213T072830_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_20200213T073021_20200213T073529_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_20200213T074045_20200213T081530_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.

Company   Comp	CS_OFFL_SIR_NOPM_2_20200213T084007_20200213T084428_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.
and Bescattler Clausity, COCO  OE CEFF., SIR NOPM 2, 20000019700433, 2000  OE CEFF., SIR NOPM 3, 20000019700433, 2000  OE CEFF., SIR NOPM 3, 20000019700430, 2000  OE CEFF., SIR NOPM 3, 20000019700430, 2000  OE CEFF., SIR NOPM 3, 20000019700430, 20000197004430, 2000  OE CEFF., SIR NOPM 3, 200000197004430, 20000197004430, 2000  OE CEFF., SIR NOPM 3, 200000197004430, 20000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 200000197004440, 20000019700444440, 20000019700444440, 20000019700444440, 20000019700444440, 20000019700444440, 20000019700444440, 20000019700444440, 200000197004444440, 20000019700444444444444444444444444444444	CS_OFFL_SIR_NOPM_2_20200213T084524_20200213T090302_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Decided Guidant Services (1997)  CE. OFFL SIR NORM 2 20000011000101 (200000110000000000000	CS_OFFL_SIR_NOPM_2_20200213T090603_20200213T090658_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_DPFI_SIR_NOPM_2_20000151105192_0000151103030_0001   CB_DPFI_SIR_NOPM_2_20000151105192_0000151105030_000151105030_000151105030_00001511105030_00001511105030_000001511105030_00001511105030_00001511105030_00001511105030_00001511105030_00001511105030_000015111105030_000015111105030_000015111105030_000015111105030_000015111105030_000015111105030_000015111105030_0000151111105030_00000151111105030_0000151111105030_0000151111105030_0000151111105030_0000151111105030_0000151111105030_0000151111105030_00001511111105030_0000151111105030_00001511111105030_0000151111105030_00000	CS_OFFL_SIR_NOPM_2_20200213T091233_20200213T091433_C001		
Dec. OFFL. SRR, NOFM. 2. 2020/21/11/02/15 (2020/	CS_OFFL_SIR_NOPM_2_20200213T092121_20200213T093650_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_NOPW_2_72000013119007_20000213119007_2000013119008_0001  CB_OFFL_SIR_NOPW_2_72000013119007_20000213119008_0001  CB_OFFL_SIR_NOPW_2_72000013119007_20000213119008_0001  CB_OFFL_SIR_NOPW_2_72000013119007_20000213119008_0001  CB_OFFL_SIR_NOPW_2_72000013119009_20000213119009_0001  CB_OFFL_SIR_NOPW_2_72000013119009_20000213119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001  CB_OFFL_SIR_NOPW_2_720000131119009_0001013119009_0001010000000000	CS_OFFL_SIR_NOPM_2_20200213T093810_20200213T093851_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description	CS_OFFL_SIR_NOPM_2_20200213T094332_20200213T095040_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Selection Guiley, COOD Alternative Range and Backscatter Quality Plags have been Affinited Range, SSHA, SWH and Selection County Affinited Range and Beasscatter Quality Plags have been affinited Range and Beasscatter Quality County Affinited Range, SSHA, SWH and Selection County Affinited Range, SSHA, SWH and Selection County Affinited Range and Beasscatter Quality County Cou	CS_OFFL_SIR_NOPM_2_20200213T095753_20200213T095804_C001		
and the COGO Altimeter Range and Backscatter Quality Flags have been set to come of more record.  CS_OFFL_SIR_NOPM_2_20200213T105141_20202213T105342_0001  CS_OFFL_SIR_NOPM_2_20200213T10273_2020213T11002_000013T110724_0001  CS_OFFL_SIR_NOPM_2_20200213T11001_2020213T11002_00013T110724_0001  CS_OFFL_SIR_NOPM_2_20200213T11001_2020213T11002_00013T110724_0001  CS_OFFL_SIR_NOPM_2_20200213T11001_2020213T11002_00013T110724_0001  CS_OFFL_SIR_NOPM_2_20200213T11001_2020213T11002_00013T110724_0001  CS_OFFL_SIR_NOPM_2_20200213T11001_2020213T110002_0001  CS_OFFL_SIR_NOPM_2_20200213T11001_2020213T110002_0001  CS_OFFL_SIR_NOPM_2_20200213T110001_2020013T110000_0001  CS_OFFL_SIR_NOPM_2_20200213T110000_0001  CS_OFFL_SIR_NOPM_2_20200213T110000_0001  CS_OFFL_SIR_NOPM_2_20200213T1100000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20200213T101037_20200213T102825_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Beckscatter Quality  CS_OFFL_SIR_NOFM_2_20200213T11002_20202213T11610_C001  CS_OFFL_SIR_NOFM_2_20200213T11601_20202213T11600_C001  Allimeter Range and Backscatter Quality Flags and the COCO Allimeter Range and Backscatter Quality Flags and the COCO Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOFM_2_20200213T11801_20200213T11203D_C001  CS_OFFL_SIR_NOFM_2_20200213T12232_20200213T12236_C001  CS_OFFL_SIR_NOFM_2_20200213T12233_20200213T12236_C001  CS_OFFL_SIR_NOFM_2_20200213T12233_20200213T12236_C001  CS_OFFL_SIR_NOFM_2_20200213T12233_20200213T123745_C001  CS_OFFL_SIR_NOFM_2_20200213T12335_20200213T123745_C001  CS_OFFL_SIR_NOFM_2_20200213T12335_20200213T123745_C001  CS_OFFL_SIR_NOFM_2_20200213T12335_20200213T12305_C001  CS_OFFL_SIR_NOFM_2_20200213T12335_20200213T12305_C001  CS_OFFL_SIR_NOFM_2_20200213T12335_20200213T11205_C001  CS_OFFL_SIR_NOFM_2_20200213T12335_20200213T11405_C001  CS_OFFL_SIR_NOFM_2_20200213T1335_C00200213T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T1305_C0020123T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T1305_C0020123T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T1305_C0020123T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T14405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T13105_C0020123T13405_C001  CS_OFFL_SIR_NOFM_2_20200213T15003_C002013T15005_C001  CS_OFFL_SIR_NOFM_2_20	CS_OFFL_SIR_NOPM_2_20200213T102950_20200213T104346_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flackscater Quality, OCOG Allimeter Range and Backscater Quality Flags have been active County Flags flave County Flags flave been active County Flags	CS_OFFL_SIR_NOPM_2_20200213T105141_20200213T105342_C001		
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been act for one or more records.  CS_OFFL_SIR_NOPM_2_20200213T12619_20200213T12629_C001  CS_OFFL_SIR_NOPM_2_20200213T122232_20200213T12639_C001  CS_OFFL_SIR_NOPM_2_20200213T122347_20200213T12639_C001  CS_OFFL_SIR_NOPM_2_20200213T122347_20200213T12639_C001  CS_OFFL_SIR_NOPM_2_20200213T122347_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T123395_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T133301_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T133301_20200213T14655_C001  CS_OFFL_SIR_NOPM_2_20200213T133301_20200213T14655_C001  CS_OFFL_SIR_NOPM_2_20200213T141659_20200213T14655_C001  CS_OFFL_SIR_NOPM_2_20200213T141659_20200213T14635_C001  CS_OFFL_SIR_NOPM_2_20200213T141659_20200213T14635_C001  CS_OFFL_SIR_NOPM_2_20200213T141659_20200213T14635_C001  CS_OFFL_SIR_NOPM_2_20200213T141659_20200213T14635_C001  CS_OFFL_SIR_NOPM_2_20200213T141659_20200213T14635_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T14655_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T163503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T164503_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T164505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T165505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T165505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T165505_C001  CS_OFFL_SIR_NOPM_2_20200213T165003_20200213T165505_C001  CS_OFF	CS_OFFL_SIR_NOPM_2_20200213T110023_20200213T111600_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality CS_OFFL_SIR_NOPM_2_20200213T152332_20200213T122836_C001  CS_OFFL_SIR_NOPM_2_20200213T122232_20200213T122836_C001  CS_OFFL_SIR_NOPM_2_20200213T122232_20200213T122836_C001  CS_OFFL_SIR_NOPM_2_20200213T122374_C0001  CS_OFFL_SIR_NOPM_2_20200213T122374_C0001  CS_OFFL_SIR_NOPM_2_20200213T123745_C001  CS_OFFL_SIR_NOPM_2_20200213T123035_20200213T125050_C001  CS_OFFL_SIR_NOPM_2_20200213T133301_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T133301_20200213T144616_C001  CS_OFFL_SIR_NOPM_2_20200213T141655_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141655_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T15804_20200213T154806_C001  CS_OFFL_SIR_NOPM_2_20200213T157474_20200213T154806_C001  CS_OFFL_SIR_NOPM_2_20200213T157474_20200213T154806_C001  CS_OFFL_SIR_NOPM_2_20200213T157474_20200213T154806_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T154806_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T156506_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T156506_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165506_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165506_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165506_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T15777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T165777_20200213T165566_C001  CS_OFFL_SIR_NOPM_2_20200213T16	CS_OFFL_SIR_NOPM_2_20200213T111801_20200213T112724_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COGG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200213T122847_20200213T123745_C001  CS_OFFL_SIR_NOPM_2_20200213T123935_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T123935_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T123935_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T131416_20200213T13716_C001  CS_OFFL_SIR_NOPM_2_20200213T131416_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144056_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144056_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144056_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151004_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151004_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151004_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151004_20200213T156507_C001  CS_OFFL_SIR_NOPM_2_20200213T15004_20200213T156507_C001  CS_OFFL_SIR_NOPM_2_20200213T15004_20200213T15004_20200213T165507_C001  CS_OFFL_SIR_NOPM_2_20200213T15004_20200213T165507_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T165500_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16556_C001  CS_OFFL_SIR_NOPM_2_20200213T165016_20200213T16	CS_OFFL_SIR_NOPM_2_20200213T115519_20200213T120629_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200213T12935_20200213T125507_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T12935_20200213T125507_C001  CS_OFFL_SIR_NOPM_2_20200213T131146_20200213T131716_C001  CS_OFFL_SIR_NOPM_2_20200213T131146_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T133201_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T14056_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T14056_20200213T144651_C001  CS_OFFL_SIR_NOPM_2_20200213T14056_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T15804_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T15804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T15804_20200213T154856_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T155507_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T165501_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T165501_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T165501_202	CS_OFFL_SIR_NOPM_2_20200213T122232_20200213T122636_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 at for one or more records.  CS_OFFL_SIR_NOPM_2_20200213T131146_20200213T131716_CO01  CS_OFFL_SIR_NOPM_2_20200213T133201_20200213T140555_CO01  CS_OFFL_SIR_NOPM_2_20200213T133201_20200213T140555_CO01  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T141631_CO01  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T141631_CO01  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T14416_CO01  CS_OFFL_SIR_NOPM_2_20200213T141855_20200213T144416_CO01  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_CO01  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_CO01  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154556_CO01  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T15557_CO01  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_CO01  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T16556_CO01  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T16556_CO01  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T165556_CO01  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T165556_CO0	CS_OFFL_SIR_NOPM_2_20200213T122947_20200213T123745_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T131201_20200213T140555_C001  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T141631_C001  CS_OFFL_SIR_NOPM_2_20200213T141655_20200213T1441631_C001  CS_OFFL_SIR_NOPM_2_20200213T141655_20200213T14416_C001  CS_OFFL_SIR_NOPM_2_20200213T141655_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T157743_20200213T154850_C001  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T155507_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T163556_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_NOPM_2_20200213T123935_20200213T125507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200213T14055_C001  and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T141631_C001  CS_OFFL_SIR_NOPM_2_20200213T141855_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T141855_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T154743_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T155507_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T165747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T165747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T165747_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T162518_C001  CS_OFFL_S	CS_OFFL_SIR_NOPM_2_20200213T131146_20200213T131716_C001		
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T141855_20200213T144416_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T141855_20200213T144416_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T154743_20200213T154850_C001  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T15507_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T165514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SI	CS_OFFL_SIR_NOPM_2_20200213T133201_20200213T140555_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 Set for one or more records.  CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  CS_OFFL_SIR_NOPM_2_20200213T154743_20200213T154850_C001  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T155507_C001  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T16356_C001  CS_OFFL_SIR_NOPM_2_20200213	CS_OFFL_SIR_NOPM_2_20200213T141056_20200213T141631_C001		
CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200213T154743_20200213T154850_C001  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T155507_C001  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T155507_C001  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T16355	CS_OFFL_SIR_NOPM_2_20200213T141855_20200213T144416_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T155030_20200213T155507_C001  DCOG Altimeter Range Quality, OCOG Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001  DCOE 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and	CS_OFFL_SIR_NOPM_2_20200213T151804_20200213T154431_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  Doesn 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, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter 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.	CS_OFFL_SIR_NOPM_2_20200213T154743_20200213T154850_C001		
CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG 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.  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, SSHA, SWH 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_20200213T155030_20200213T155507_C001		
CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_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 and the 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 have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags h	CS_OFFL_SIR_NOPM_2_20200213T155747_20200213T162518_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200213T165010_20200213T172342_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20200213T163514_20200213T163556_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20200213T165010_20200213T172342_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20200213T172939_20200213T173511_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have to for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T173637_20200213T174257_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T181405_20200213T181553_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T182918_20200213T190328_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T190842_20200213T191354_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records.
CS_OFFL_SIR_NOPM_2_20200213T191532_20200213T193535_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T200720_20200213T202751_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T202901_20200213T204119_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T204859_20200213T205255_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have to for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T205451_20200213T212355_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T212412_20200213T213116_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T213243_20200213T213524_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records.
CS_OFFL_SIR_NOPM_2_20200213T214348_20200213T214448_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have t for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T214450_20200213T214503_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records.
CS_OFFL_SIR_NOPM_2_20200213T215039_20200213T215819_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T220423_20200213T222042_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T222223_20200213T222740_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have t for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T223822_20200213T225115_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T225330_20200213T230515_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T233254_20200213T234320_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPM_2_20200213T234500_20200214T000000_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPN_2_20200213T065648_20200213T065727_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have to for one or more records.
CS_OFFL_SIR_NOPN_2_20200213T123746_20200213T123934_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_NOPN_2_20200213T140633_20200213T140821_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records.
CS_OFFL_SIR_NOPR_2_20200213T081806_20200213T081808_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have befor one or more records.
CS_OFFL_SIR_NOPR_2_20200213T095804_20200213T095926_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPR_2_20200213T200629_20200213T200720_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags ha

CS_OFFL_SIR_NOPR_2_20200213T215820_20200213T220301_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200213T230611_20200213T230822_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# 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.

67

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200213T000029_20200213T000325_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_20200213T005921_20200213T010354_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_20200213T014057_20200213T014450_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_20200213T045725_20200213T045857_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_20200213T052956_20200213T053330_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_20200213T054945_20200213T055100_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_20200213T055635_20200213T055952_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_20200213T064815_20200213T064841_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_20200213T065648_20200213T065727_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_20200213T070730_20200213T070906_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_20200213T073530_20200213T073619_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_20200213T091433_20200213T092004_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_20200213T100523_20200213T101007_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_20200213T122723_20200213T122947_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_20200213T123746_20200213T123934_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_20200213T132344_20200213T132937_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_20200213T141632_20200213T141855_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_20200213T150355_20200213T150804_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_20200213T150850_20200213T151013_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_20200213T151043_20200213T151554_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_20200213T164552_20200213T165010_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_20200213T175335_20200213T175510_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_20200213T180431_20200213T180611_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_20200213T180714_20200213T180726_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_20200213T182447_20200213T182630_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_20200213T190522_20200213T190842_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_20200213T191355_20200213T191519_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_20200213T193535_20200213T193857_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_20200213T205256_20200213T205404_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_20200213T213524_20200213T213634_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_20200213T222043_20200213T222222_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_20200213T231331_20200213T231548_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_20200213T000325_20200213T000414_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_20200213T000627_20200213T001318_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_20200213T002702_20200213T003127_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_20200213T003151_20200213T003549_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_20200213T045857_20200213T045941_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_20200213T050845_20200213T051343_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_20200213T055953_20200213T060204_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_20200213T064811_20200213T064815_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_20200213T064842_20200213T064942_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_20200213T065208_20200213T065523_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_20200213T081818_20200213T081833_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_20200213T092004_20200213T092120_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_20200213T095040_20200213T095511_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_20200213T104347_20200213T104906_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_20200213T113749_20200213T114142_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_20200213T114815_20200213T115241_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 Benge CCHA CMH	
CS_OFFL_SIR_NOPR_2_20200213T115331_20200213T115519_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_20200213T125634_20200213T130233_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_20200213T132937_20200213T133201_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_20200213T145458_20200213T145716_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_20200213T145904_20200213T150355_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_20200213T163259_20200213T163514_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_20200213T163556_20200213T164552_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_20200213T180948_20200213T181258_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_20200213T181553_20200213T182446_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_20200213T182642_20200213T182748_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_20200213T195725_20200213T200515_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_20200213T212355_20200213T212412_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_20200213T213634_20200213T214348_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_20200213T214558_20200213T214617_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_20200213T214625_20200213T215039_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_20200213T223151_20200213T223822_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_20200213T225116_20200213T225329_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_20200213T230516_20200213T230611_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_20200213T231548_20200213T232251_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:

### 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.

125

Number of products with errors: 48

### 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: