

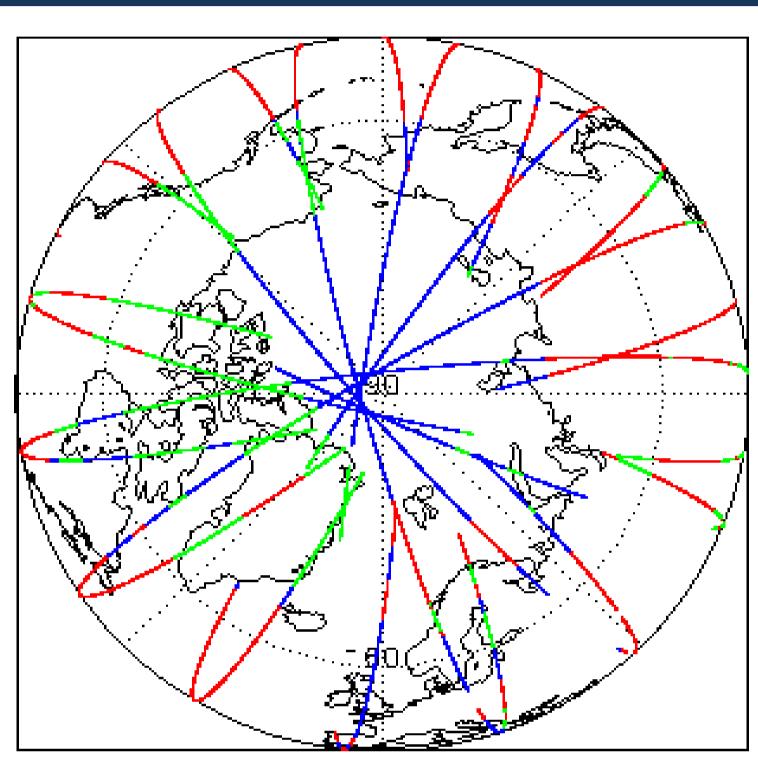
# 1. Overview

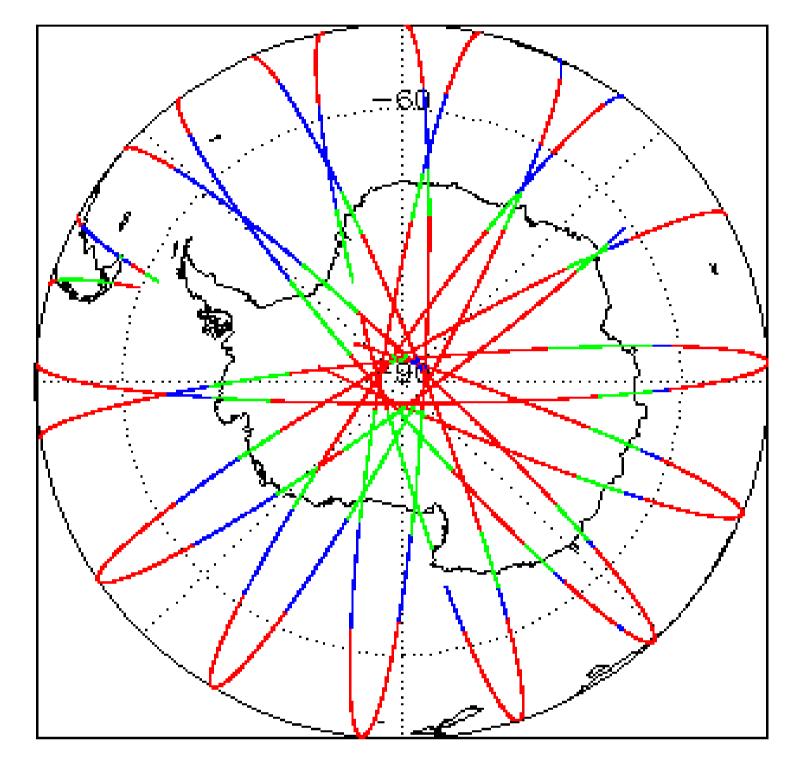
Report Production:	09-Dec-2020		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data		

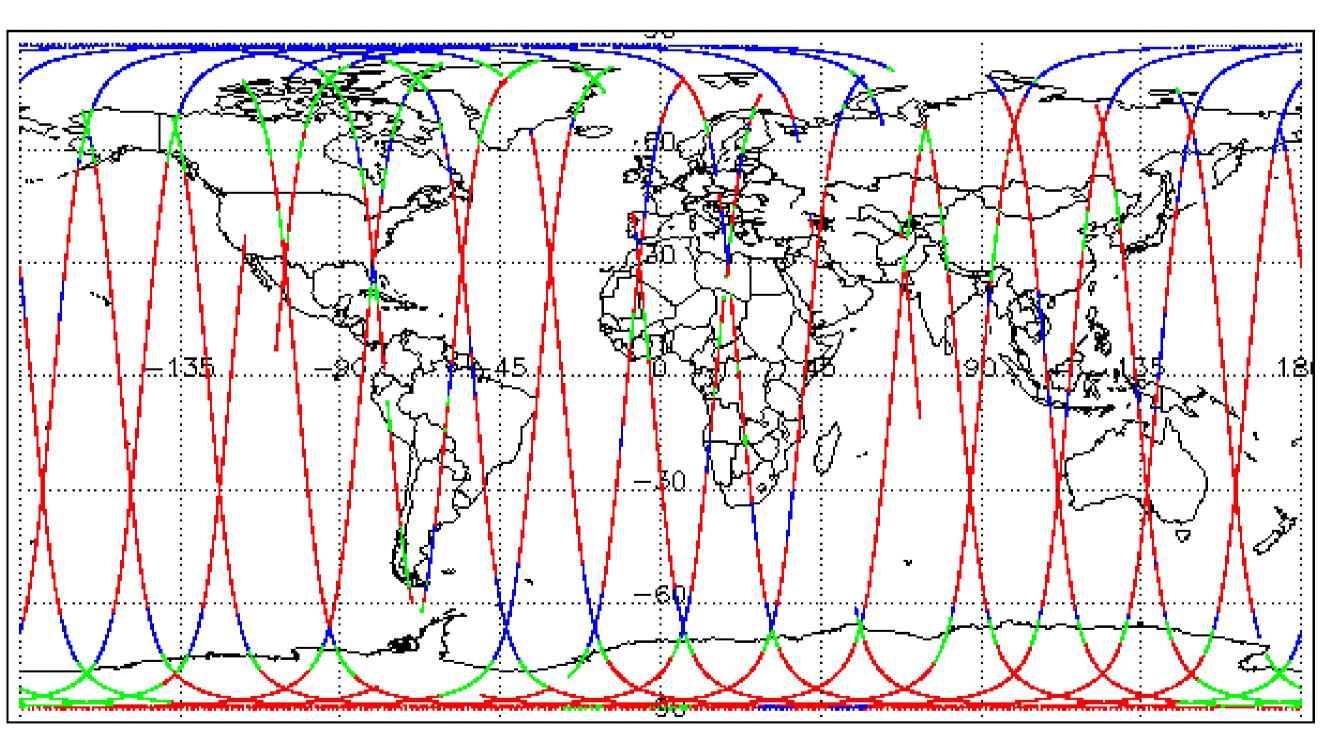
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

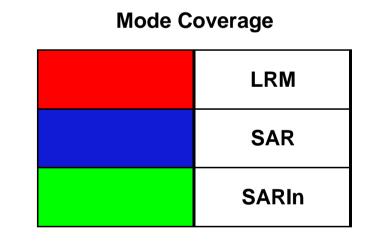
Mission / Instru	iment News
07-Dec-2020	None
08-Dec-2020	None
09-Dec-2020	Nothing planned

# 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

#### **4.2 L1B Product Header Analysis**

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

#### 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:

#### 4.6 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:

8

0

0

Product	Test Failed	Description
CS_OFFL_SIR_NOPN1B_20201208T033910_20201208T033958_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201208T052129_20201208T052332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201208T084005_20201208T084221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201208T094312_20201208T094734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201208T184131_20201208T184520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20201208T215946_20201208T220201_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201208T032951_20201208T033328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20201208T191806_20201208T192508_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. NOP Level 2 Data Quality Check

### 5.1 L2 Product Format Check

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

Number of products with errors: 0

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

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).

0

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.

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- > 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20201208T073047_20201208T073148_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_20201208T011258_20201208T011418_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_20201208T011510_20201208T011703_C001		Topography (solution 1) and the tidal corrections for one or more records

CS_OFFL_SIR_NOPN_2_20201208T025248_20201208T025612_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_20201208T035129_20201208T035404_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_20201208T043151_20201208T043512_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_20201208T052129_20201208T052332_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_20201208T061915_20201208T062037_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_20201208T070202_20201208T070306_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_20201208T075627_20201208T075828_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_20201208T084005_20201208T084221_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_20201208T101547_20201208T102055_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_20201208T111547_20201208T111803_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_20201208T115340_20201208T115919_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_20201208T133154_20201208T133548_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_20201208T142517_20201208T142641_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20201208T151345_20201208T151538_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_20201208T160448_20201208T160614_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_20201208T161128_20201208T161430_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_20201208T174451_20201208T174702_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_20201208T175030_20201208T175426_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_20201208T184131_20201208T184520_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20201208T192509_20201208T192743_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_20201208T202017_20201208T202133_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_20201208T202343_20201208T202629_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20201208T215946_20201208T220201_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_20201208T224230_20201208T224411_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_20201208T233910_20201208T234355_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_20201208T002527_20201208T003031_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_20201208T020258_20201208T021233_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_20201208T034330_20201208T035129_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_20201208T052404_20201208T053200_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_20201208T070307_20201208T071026_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_20201208T083338_20201208T083511_C001		There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPR_2_20201208T084222_20201208T084344_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_20201208T084344_20201208T084909_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_20201208T102056_20201208T102619_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_20201208T195203_20201208T195319_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_20201208T233502_20201208T233910_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

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Number of products with errors:

Test Failed Description **Product** Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20201207T234607\_20201208T001043\_C001 Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20201208T004303\_20201208T010939\_C001 Altimeter Range and Backscatter Quality set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS\_OFFL\_SIR\_NOPM\_2\_20201208T011703\_20201208T012307\_C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS\_OFFL\_SIR\_NOPM\_2\_20201208T020053\_20201208T020257\_C001 Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG CS\_OFFL\_SIR\_NOPM\_2\_20201208T021612\_20201208T024906\_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS\_OFFL\_SIR\_NOPM\_2\_20201208T025612\_20201208T030138\_C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS\_OFFL\_SIR\_NOPM\_2\_20201208T030500\_20201208T030930\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS\_OFFL\_SIR\_NOPM\_2\_20201208T033958\_20201208T034009\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20201208T034014\_20201208T034330\_C001 Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20201208T035534\_20201208T040414\_C001 Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS OFFL SIR NOPM 2 20201208T040659 20201208T042858 C001 Altimeter Range and Backscatter Quality set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS\_OFFL\_SIR\_NOPM\_2\_20201208T043512\_20201208T043617\_C001 **Backscatter Quality** for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS\_OFFL\_SIR\_NOPM\_2\_20201208T043621\_20201208T044030\_C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20201208T044514\_20201208T050204\_C001 Altimeter Range and Backscatter Quality set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20201208T053358\_20201208T060730\_C001 Altimeter Range and Backscatter Quality set for one or more records.

CS_OFFL_SIR_NOPM_2_20201208T061034_20201208T061516_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_20201208T062616_20201208T065748_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_20201208T071417_20201208T071519_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_20201208T071639_20201208T072455_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_20201208T073207_20201208T074705_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_20201208T074859_20201208T075415_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201208T075434_20201208T075447_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_20201208T075450_20201208T075627_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_20201208T080427_20201208T081754_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_NOPM_2_20201208T082202_20201208T083338_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_20201208T083511_20201208T083603_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_20201208T085312_20201208T085318_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_20201208T085934_20201208T090957_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_NOPM_2_20201208T091137_20201208T092547_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_20201208T092826_20201208T093327_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_20201208T094734_20201208T095434_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_20201208T095857_20201208T100346_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_20201208T103420_20201208T103426_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_20201208T103443_20201208T103506_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_20201208T104250_20201208T110455_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_20201208T110857_20201208T111245_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_20201208T111923_20201208T114609_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_20201208T121936_20201208T124421_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_20201208T124640_20201208T125200_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_20201208T125930_20201208T133153_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_20201208T135532_20201208T141448_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.

Col. 17 - Sile   YOPY   2.0001001   10011001   100100			
Display	CS_OFFL_SIR_NOPM_2_20201208T141831_20201208T142314_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Col. OFFL. SBI, NOPM_2_ADDITION_TODO_SET_TRANS_CO.   Col. OFFL. SBI, NOPM_2_ADDITIO	CS_OFFL_SIR_NOPM_2_20201208T143912_20201208T151143_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Description of the control of the co	CS_OFFL_SIR_NOPM_2_20201208T155238_20201208T160132_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPX_2_200128F119204_201029F119205_CD0  CS_OFFL_SIR_NOPX_2_200128F119204_201029F17927 C.CO  CS_OFFL_SIR_NOPX_2_200128F17921_200109F17927 C.CO  CS_OFFL_SIR_NOPX_2_200128F17921_200109F17927 C.CO  CS_OFFL_SIR_NOPX_2_200128F179204_200109F17927 C.CO  CS_OFFL_SIR_NOPX_2_200128F179204_200109F179204_CD0  CS_OFFL_SIR_NOPX_2_200128F179202_200109F179204_CD0  CS_OFFL_SIR_NOPX_2_200128F179204_200109F179204_CD0  CS_OFFL_SIR_NOPX_2_2	CS_OFFL_SIR_NOPM_2_20201208T160614_20201208T161128_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Refessaer Capity, CODI Amendment Range and Biodecenter Capity, Pile See OFFL Six NOPNA 2 2020120617-02011 20027-0011 10.017-0011 CODI Amendment Range and Biodecenter Capity, Pile and Endocenter Capity, CODI Alteret Range and Biodecenter Capity, Pile and Endocenter Capity, CODI Alteret Range and Biodecenter Capity, Pile and Development Capity, CODI Alteret Range and Biodecenter Capity, Pile and Development Capity, CODI Alteret Range and Biodecenter Capity, CODI CODINE Alteret Range Capity, CODI Codine Capity,	CS_OFFL_SIR_NOPM_2_20201208T161757_20201208T163939_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFF_SIR_NOPM_2_202012017102712_2010101717204_0001  CS_OFF_SIR_NOPM_2_20201201717202_201010177204_0001  CS_OFF_SIR_NOPM_2_20201201717202_201010177200_001  CS_OFF_SIR_NOPM_2_2020120177202_201010177200_001  CS_OFF_SIR_NOPM_2_2020120177200_001  CS_OFF_SIR_NOPM_2_20201201772000_001  CS_OFF_SIR_NOPM_2_202012017720000	CS_OFFL_SIR_NOPM_2_20201208T164224_20201208T165200_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and die COCO Allereer Range and Backscatier Quality Annuer Range and Backscatier Quality CS_OFF_SIR_NORM_2_202012081174054_0001  CS_OFF_SIR_NORM_2_202012081174054_0001  CS_OFF_SIR_NORM_2_202012081174054_0001  CS_OFF_SIR_NORM_2_202012081174054_0001  CS_OFF_SIR_NORM_2_202012081174054_0001  CS_OFF_SIR_NORM_2_202012081176052_0001  CS_OFF_SIR_NORM_2_202012081176052_0001  CS_OFF_SIR_NORM_2_202012081176052_0001  CS_OFF_SIR_NORM_2_202012081176052_0001  CS_OFF_SIR_NORM_2_202012081180000_0001  CS_OFF_SIR_NORM_2_2020120811800000000000000000000000000	CS_OFFL_SIR_NOPM_2_20201208T170311_20201208T170417_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and beocrater Quality, COCO Alterneter Range and Beokscatter Quality Flags have been for one or man records.  CS_OFFL_SIR_NOPM_2_202012081174758_20201208119200_C0001  CS_OFFL_SIR_NOPM_2_202012081174778_20201208119200_C0001  CS_OFFL_SIR_NOPM_2_202012081174778_20201208119200_C0001  CS_OFFL_SIR_NOPM_2_202012081174778_20201208119205_C0001  CS_OFFL_SIR_NOPM_2_20201208118209_20201208119205_C0001  CS_OFFL_SIR_NOPM_2_20201208118209_20201208119205_C0001  CS_OFFL_SIR_NOPM_2_202012081184093_20201208119205_C0001  CS_OFFL_SIR_NOPM_2_202012081184093_202012081192093_C0001  CS_OFFL_SIR_NOPM_2_202012081184093_202012081192093_C0001  CS_OFFL_SIR_NOPM_2_202012081184093_202012081192093_C0001  CS_OFFL_SIR_NOPM_2_202012081192093_202012081192093_C0001  CS_OFFL_SIR_NOPM_2_202012081192093_2020120812093_C0001  CS_OFFL_SIR_NOPM_2_202012081192093_2020120812093_C0001  CS_OFFL_SIR_NOPM_2_202012081192093_2020120812093_C0001	CS_OFFL_SIR_NOPM_2_20201208T172227_20201208T172834_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Beockstere Quality for one or more records.  CS_OFFL_SIR_NORM_2_202012095176727_202012081182240_C0001  CS_OFFL_SIR_NORM_2_202012095176727_202012081182307_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081183007_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081183007_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081183007_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081183007_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081183007_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081193007_C0001  CS_OFFL_SIR_NORM_2_202012095163008_20201208119300_C0001  CS_OFFL_SIR_NORM_2_202012095163008_20201208119300_C0001  CS_OFFL_SIR_NORM_2_202012095163008_20201208119300_C0001  CS_OFFL_SIR_NORM_2_202012095163008_20201208119300_C0001  CS_OFFL_SIR_NORM_2_202012095163008_20201208119300_C0001  CS_OFFL_SIR_NORM_2_202012095163008_20201208119300_C0001  CS_OFFL_SIR_NORM_2_202012095163008_202012081193000_C0001  CS_OFFL_SIR_NORM_2_202012095163008_2020120811930000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20201208T173022_20201208T174051_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have been constituted. Plags the part of core or	CS_OFFL_SIR_NOPM_2_20201208T174756_20201208T175030_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
one Backscatter Quality, COCS Althreefer Range and Backscatter Quality Flags have been for one or more records.  CS_OFFL_SIR_NOPM_2_20201208T183201_20201208T183237_C001  CS_OFFL_SIR_NOPM_2_20201208T183201_20201208T183233_C001  CS_OFFL_SIR_NOPM_2_20201208T183201_20201208T183233_C001  CS_OFFL_SIR_NOPM_2_20201208T183201_20201208T183233_C001  CS_OFFL_SIR_NOPM_2_20201208T183201_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T193333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T19305_C001  CS_OFFL_SIR_NOPM_2_20201208T19333_20201208T20244_C001  CS_OFFL_SIR_NOPM_2_20201208T20213_20201208T202044_C001  CCCG_Altimeter Range Quality, CCCG_Altimeter Range and Backscatter Quality Flags have been for more records.  CCCG_Altimeter Range and Backscatter Quality Flags have been for more records.  CCCG_Altimeter Range and Backscatter Quality Flags have been for more records.  CCCG_Altimeter Range and Backscatter Quality Flags have been for more records.  CCCG_Altimeter Range	CS_OFFL_SIR_NOPM_2_20201208T175727_20201208T182740_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
GS_OFFL_SIR_NOPM_2_20201208T193232_20201208T198323_C001  CS_OFFL_SIR_NOPM_2_20201208T194008_20201208T191805_C001  CS_OFFL_SIR_NOPM_2_20201208T194008_20201208T191805_C001  CS_OFFL_SIR_NOPM_2_20201208T194008_20201208T193938_C001  CS_OFFL_SIR_NOPM_2_20201208T192743_20201208T192938_C001  CS_OFFL_SIR_NOPM_2_20201208T192743_20201208T192938_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T193443_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T193443_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T19300_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T19300_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T19300_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T19300_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T19300_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T19300_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195300_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195330_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200343_C0001	CS_OFFL_SIR_NOPM_2_20201208T182808_20201208T183037_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T194608_20201208T191805_C001  CS_OFFL_SIR_NOPM_2_20201208T194608_20201208T191805_C001  CS_OFFL_SIR_NOPM_2_20201208T192743_20201208T192938_C001  CS_OFFL_SIR_NOPM_2_20201208T192743_20201208T192938_C001  CS_OFFL_SIR_NOPM_2_20201208T193138_20201208T193443_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T19338_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T209448_C001  CS_OFFL_SIR_NOPM_2_20201208T195344_20201208T209448_C001  CS_OFFL_SIR_NOPM_2_20201208T195344_20201208T209448_C001  CS_OFFL_SIR_NOPM_2_20201208T195344_20201208T209444_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CS_OFFL_SIR_NOPM_2_20201208T20842_20201208T209424_C001  CCCG_Altimeter Range_SHA_SWH and Backscatter Quality Flags have been for one or more records.  CCCG_Altimeter Range_SHA_SWH and Backscatter Quality Flags have been for one or more records.  CCCG_Altimeter Range_SHA_SWH and Backscatter Quality Flags have been for one or more records.  CCCG_Altimeter Range_SHA_SWH and Backscatter Quality Flags have been for one or more records.  CCCG_Altimeter Range_SHA_SWH and Backscatter Quality Flags have been for one or more records.  CCCCG_Altimeter Range	CS_OFFL_SIR_NOPM_2_20201208T183201_20201208T183227_C001	_	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality, GCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  CS_OFFL_SIR_NOPM_2_20201208T192743_20201208T192938_C001  CS_OFFL_SIR_NOPM_2_20201208T193138_20201208T193443_C001  CS_OFFL_SIR_NOPM_2_20201208T193138_20201208T193443_C001  CS_OFFL_SIR_NOPM_2_20201208T193138_20201208T194017 C001  CS_OFFL_SIR_NOPM_2_20201208T193638 20201208T194017 C001  CS_OFFL_SIR_NOPM_2_20201208T194031_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T194031_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T2022134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202234_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T202434_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T202434_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T202434_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T20343_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T20343_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T20343_C001  CS_OFFL_SIR_NOPM_2_20201208T206439_S0204244_C001  CS_OFFL_SIR_NOPM_2_20201208T206439_S0204244_C001  CS_OFFL_SIR_NO	CS_OFFL_SIR_NOPM_2_20201208T183229_20201208T183233_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T193138_20201208T193443_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T194031_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202344_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T204244_C001  CCG_ORITINETER Range_Quality,	CS_OFFL_SIR_NOPM_2_20201208T184608_20201208T191805_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001  CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T194031_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202344_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202672_2020T208T204244_C001  CCGG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been for one or more records.  CCGG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been for one or more records.  CCGG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_NOPM_2_20201208T192743_20201208T192938_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been grown or more records.  CS_OFFL_SIR_NOPM_2_20201208T194031_20201208T195203_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T20448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T202448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202424_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T20617_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T20617_20201208T20659_C001  CS_OFFL_SIR_N	CS_OFFL_SIR_NOPM_2_20201208T193138_20201208T193443_C001	_	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality Set for one or more records.  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202434_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202444_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202639_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T20617_20201208T20659_C001  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_NOPM_2_20201208T193638_20201208T194017_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200448_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001  CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202344_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T20267_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T20617_20201208T210859_C001  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T211344_C001  CCG_OR Altimeter Range Quality, OCOG Backscatter	CS_OFFL_SIR_NOPM_2_20201208T194031_20201208T195203_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T200448_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  Ocog Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_NOPM_2_20201208T195338_20201208T195339_C001	1	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001	CS_OFFL_SIR_NOPM_2_20201208T195342_20201208T200448_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.  CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001  and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20201208T202134_20201208T202343_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_202012081210617_202012081210859_C001  Backscatter Quality  For one or more records.  OCOG Altimeter Range Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20201208T202629_20201208T204244_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
US OFFI SIR NOPM / 202012081210916 202012081211344 COOL	CS_OFFL_SIR_NOPM_2_20201208T210617_20201208T210859_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_NOPM_2_20201208T210916_20201208T211344_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_NOPM_2_20201208T211611_20201208T213029_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20201208T213209_20201208T213452_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_20201208T220940_20201208T221450_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
CS_OFFL_SIR_NOPM_2_20201208T221734_20201208T222010_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_20201208T222017_20201208T224115_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_20201208T224411_20201208T225253_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_20201208T225518_20201208T232009_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_20201208T235210_20201209T001942_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_20201208T183525_20201208T183540_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_20201208T220251_20201208T220519_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_20201208T030256_20201208T030500_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_20201208T033605_20201208T033855_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_20201208T160132_20201208T160448_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_20201208T182740_20201208T182808_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_20201208T220520_20201208T220736_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors: 81

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20201208T001043_20201208T001144_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_20201208T002507_20201208T002527_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_20201208T012307_20201208T012433_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_20201208T021233_20201208T021612_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_20201208T030138_20201208T030256_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_20201208T033910_20201208T033958_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_20201208T050204_20201208T050530_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_20201208T052129_20201208T052332_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_20201208T061915_20201208T062037_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_20201208T074723_20201208T074859_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_20201208T083713_20201208T083753_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_20201208T084005_20201208T084221_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_20201208T085643_20201208T085934_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_20201208T094312_20201208T094734_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_20201208T101547_20201208T102055_C001	Tand Backscatter Challty PLRIVE OCCU	The Ocean Altimeter Range, SSHA, SWH 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_20201208T110544_20201208T110857_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_20201208T111547_20201208T111803_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_20201208T114740_20201208T114949_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_20201208T115340_20201208T115919_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_20201208T121532_20201208T121703_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_20201208T124513_20201208T124640_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_20201208T142517_20201208T142641_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_20201208T143437_20201208T143550_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_20201208T152755_20201208T152918_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_20201208T160448_20201208T160614_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_20201208T172029_20201208T172227_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_20201208T174451_20201208T174702_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_20201208T175030_20201208T175426_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_20201208T183525_20201208T183540_C001	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_20201208T184131_20201208T184520_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_20201208T192939_20201208T193138_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_20201208T193443_20201208T193606_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_20201208T200448_20201208T200724_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_20201208T202017_20201208T202133_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_20201208T215946_20201208T220201_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_20201208T220251_20201208T220519_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_20201208T220736_20201208T220859_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_20201208T221611_20201208T221734_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_20201208T224230_20201208T224411_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_20201208T225253_20201208T225441_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_20201208T232009_20201208T232241_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_20201208T232900_20201208T233023_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_20201208T233910_20201208T234355_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_20201208T234446_20201208T234608_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_20201208T235129_20201208T235210_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_20201208T002126_20201208T002330_C001	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_20201208T002400_20201208T002507_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_20201208T010939_20201208T011258_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_20201208T015924_20201208T020053_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_20201208T020258_20201208T021233_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_20201208T024906_20201208T025247_C001	TAITIMETER 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_20201208T033605_20201208T033855_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_20201208T034330_20201208T035129_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_20201208T042858_20201208T043151_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_20201208T043617_20201208T043621_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_20201208T052404_20201208T053200_C001	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_20201208T062037_20201208T062616_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_20201208T070307_20201208T071026_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_20201208T071252_20201208T071417_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_20201208T075828_20201208T080427_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_20201208T081754_20201208T082007_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_20201208T083604_20201208T083712_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_20201208T083753_20201208T084005_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_20201208T084344_20201208T084909_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_20201208T101339_20201208T101547_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_20201208T104141_20201208T104250_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_20201208T124421_20201208T124512_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_20201208T125655_20201208T125930_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_20201208T151252_20201208T151345_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_20201208T160132_20201208T160448_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_20201208T161430_20201208T161757_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_20201208T170417_20201208T170515_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_20201208T170641_20201208T171313_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_20201208T183038_20201208T183130_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_20201208T191806_20201208T192508_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_20201208T204244_20201208T204456_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_20201208T213452_20201208T213815_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_20201208T215339_20201208T215504_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_20201208T220520_20201208T220736_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_20201208T220859_20201208T220940_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_20201208T224115_20201208T224229_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.

Number of products with errors:

## 56

## 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.

# 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	182	182	5	177	0
SIR_NOPR1B	103	103	0	103	0
SIR_NOPN1B	101	101	3	98	0
SIR_NOPM_2	182	182	132	50	0
SIR_NOPR_2	103	103	31	70	2
SIR_NOPN_2	101	101	41	60	0

## 7.1 QCC Errors

#### **Number of QCC reports with errors:**

7

	_	_			
Total	number	of occi	irrancas	of each	Arror

<b>Product Type</b>	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2	2	1	2	2	1	2					

Test Description Key:								
Abbreviation	Test name	Details						
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF						
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6						
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7						
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF						
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6						
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7						

# 7.2 QCC Warnings

#### Number of QCC reports with warnings

1710

Total number of occurrences of each wa	arnino

 Total number of occurrences of each warning									
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD		
SIR_NOPM1B	177	0	0	0	0	0	0		
SIR_NOPM_2	0	0	38	40	0	39	0		
SIR_NOPN1B	94	0	0	0	0	0	0		
SIR_NOPN_2	0	0	8	34	4	26	29		
SIR_NOPR1B	101	0	0	0	0	0	0		
SIR NOPR 2	0	2	32	47	1	21	22		

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	33	1	27	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	20	1	0	0	24	0	34
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	10	3	0	46	0	56	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	23	0	0	4	32	0	4
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	29	11	43	53	30
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	48	0	2	59	31	8

Prod	luct Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_	NOPM1B	0	0	0	1	0	0	0
SIR_	NOPM_2	39	0	6	1	0	0	0
SIR_	NOPN1B	0	0	0	0	0	46	1
SIR_	NOPN_2	26	30	10	0	0	0	0
SIR_	NOPR1B	0	0	0	0	0	103	6
SIR_	NOPR_2	37	50	3	0	4	0	0

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Test Description Key: Abbreviation	Test name	Details	
	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter	
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	
	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees	
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean	
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	
RPEPOPFDSARNCDF	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	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		The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for
		latitudes between -70 and 70 degrees
<b>RSWHOEPFDPLRMNC</b>	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for
DF		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 (DBL ASC, rounded up to 0.1)
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
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# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0