





1. Overview

QA4EO Daily Report for NOP data:

Report Production:	20-Feb-2023			
Processor Used:	CryoSat Ocean Processor			
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data			

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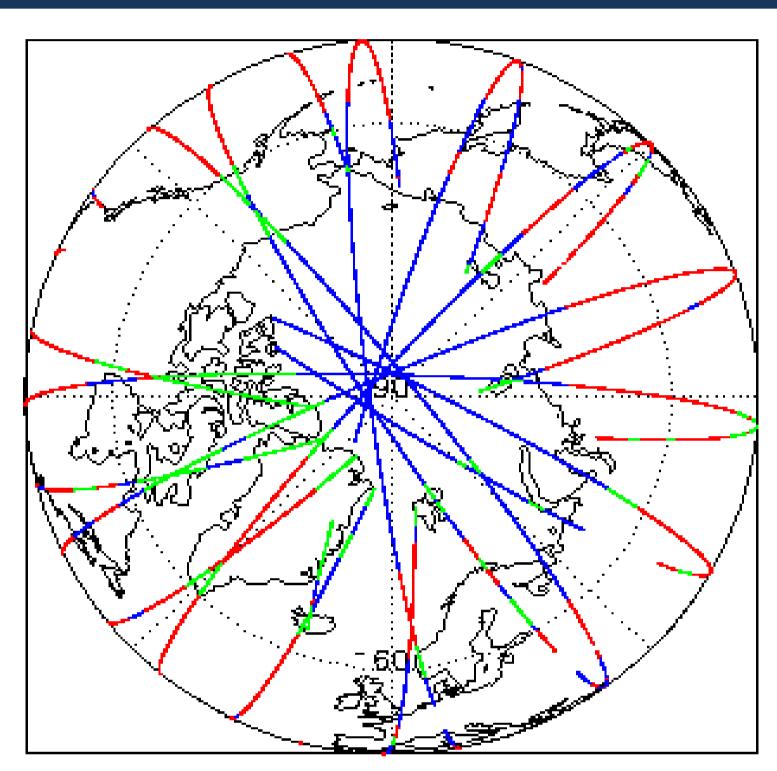
cs2_qc_team@telespazio.com

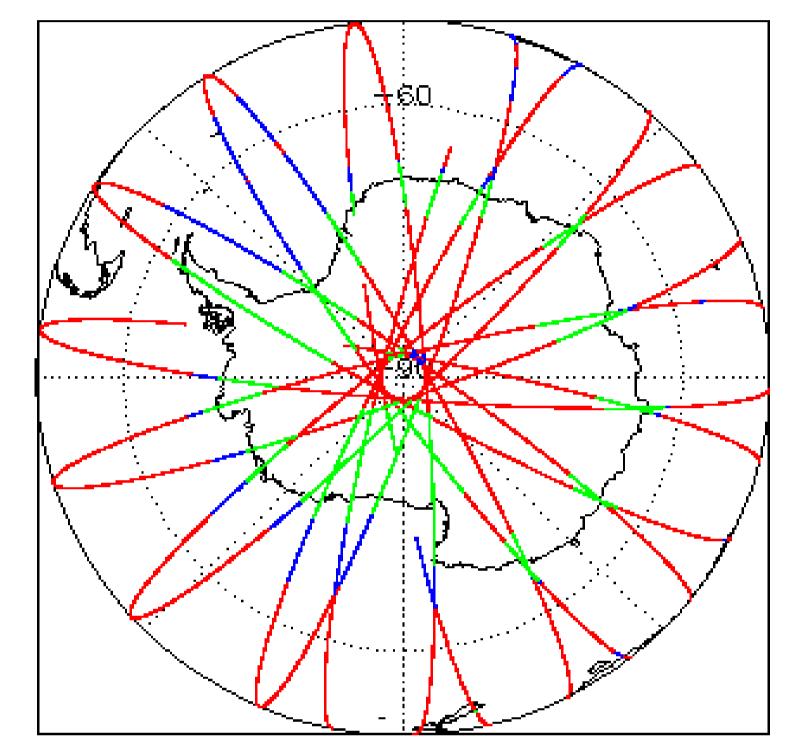
ı	love to hear from you!	
/	your feedback about these daily	

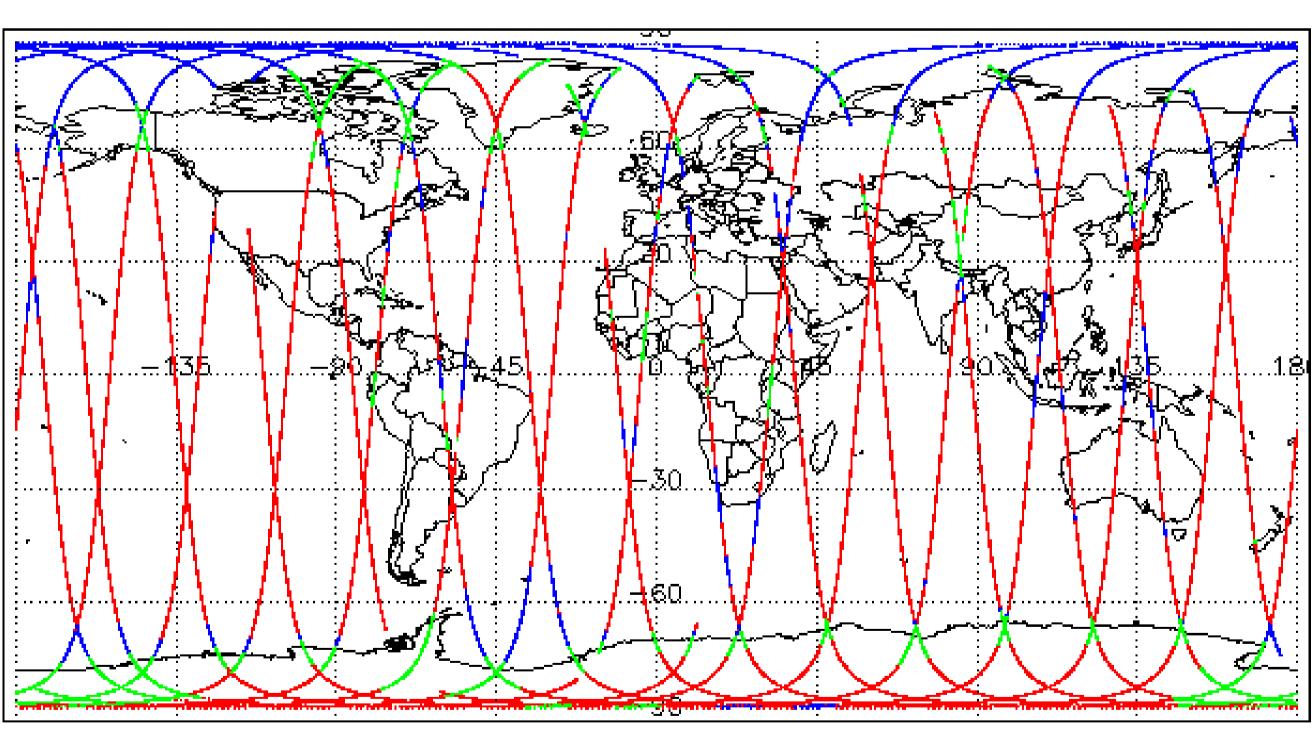
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

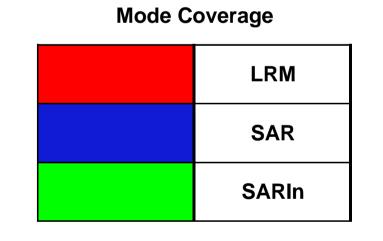
Mission / Instrument News		
17-Feb-2023	None	
18-Feb-2023	None	
19-Feb-2023	Nothing planned	

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 l1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the l1b_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.

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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. The attitude correction is not actually missing, This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230218T052824_20230218T054308_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 occasional products over land, but this is to be expected.

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_NOPN1B_20230218T073517_20230218T074004_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230218T103835_20230218T104019_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230218T171614_20230218T171812_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

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.

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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_20230218T200339_20230218T203140_C001	IMEAN DYNAMIC LODOGRADDY (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20230218T000743_20230218T001050_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_20230218T014042_20230218T014123_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_20230218T014644_20230218T014755_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_20230218T032123_20230218T032357_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_20230218T041632_20230218T041753_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_20230218T045656_20230218T050242_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_20230218T055102_20230218T055157_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_20230218T055603_20230218T055814_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_20230218T055925_20230218T060154_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_20230218T063848_20230218T064029_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_20230218T064912_20230218T065120_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_20230218T073517_20230218T074004_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_20230218T095800_20230218T100154_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20230218T113749_20230218T114101_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_20230218T122224_20230218T122344_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_20230218T131527_20230218T131942_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_20230218T132519_20230218T132643_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_20230218T150305_20230218T150450_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_20230218T154701_20230218T154754_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_20230218T164104_20230218T164324_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_20230218T172458_20230218T172710_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_20230218T181116_20230218T181316_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_20230218T190141_20230218T190534_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_20230218T195129_20230218T195401_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_20230218T200122_20230218T200305_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_20230218T214021_20230218T214157_C001	Tiviean Dynamic Toboqraphy (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20230218T231719_20230218T232037_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_20230218T034619_20230218T034804_C001	Tiviean Dynamic Tobography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20230218T090602_20230218T090730_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_20230218T091017_20230218T091546_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_20230218T103835_20230218T104019_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_20230218T104928_20230218T105719_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_20230218T122625_20230218T124029_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_20230218T140858_20230218T141617_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_20230218T154755_20230218T155335_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_20230218T171614_20230218T171812_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_20230218T172710_20230218T173400_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_20230218T190534_20230218T191051_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_20230218T204339_20230218T205331_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_20230218T222131_20230218T222905_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_20230218T223821_20230218T224020_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height 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:

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230218T052824_20230218T054308_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 (20 Hz)

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

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230217T235208_20230218T000043_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_20230218T000224_20230218T000743_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_20230218T001312_20230218T003555_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_20230218T003841_20230218T004759_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_20230218T010013_20230218T010415_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_20230218T012003_20230218T012447_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_20230218T012635_20230218T013953_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_20230218T014325_20230218T014644_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_20230218T015239_20230218T015839_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_20230218T015848_20230218T022110_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_20230218T022141_20230218T022443_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_20230218T022859_20230218T022905_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_20230218T024305_20230218T025005_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_20230218T025029_20230218T031422_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_20230218T033224_20230218T033822_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 bee set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T033916_20230218T034619_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 bee set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T034853_20230218T035015_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 bee set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T035328_20230218T040049_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_20230218T040904_20230218T040909_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records
CS_OFFL_SIR_NOPM_2_20230218T042319_20230218T042604_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T042713_20230218T043703_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T044516_20230218T045656_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T050242_20230218T050507_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been some or more records
CS_OFFL_SIR_NOPM_2_20230218T050537_20230218T051000_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been stor one or more records
CS_OFFL_SIR_NOPM_2_20230218T051139_20230218T051851_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T051909_20230218T052644_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T052824_20230218T054308_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T060949_20230218T061225_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T061348_20230218T061835_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T062107_20230218T063758_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T064029_20230218T064912_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_NOPM_2_20230218T065128_20230218T071357_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T072506_20230218T072617_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_NOPM_2_20230218T074227_20230218T081718_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T082237_20230218T082706_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_NOPM_2_20230218T082947_20230218T085510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flagand the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T092826_20230218T095641_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T100154_20230218T100746_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_NOPM_2_20230218T100912_20230218T103019_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_NOPM_2_20230218T103307_20230218T103441_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flagand the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records

CS_OFFL_SIR_NOPM_2_20230218T110015_20230218T113520_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_20230218T114102_20230218T114617_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_20230218T115259_20230218T115538_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_20230218T121352_20230218T121542_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_20230218T122345_20230218T122624_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_20230218T124029_20230218T124906_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_20230218T125152_20230218T131421_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_20230218T131942_20230218T132104_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_20230218T132111_20230218T132519_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_20230218T132649_20230218T134026_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_20230218T134214_20230218T134931_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_20230218T135013_20230218T135448_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_20230218T141738_20230218T141748_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_20230218T142034_20230218T145304_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_20230218T145443_20230218T150003_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_20230218T150023_20230218T150305_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_20230218T151105_20230218T152336_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_20230218T152339_20230218T154116_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_20230218T154246_20230218T154701_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_20230218T155754_20230218T155756_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_20230218T160215_20230218T161425_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_20230218T161630_20230218T163218_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_20230218T164820_20230218T165843_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_20230218T170502_20230218T171614_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_20230218T175207_20230218T175331_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_20230218T175629_20230218T181100_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_20230218T181316_20230218T181813_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Displace Color C	CS_OFFL_SIR_NOPM_2_20230218T182438_20230218T185838_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dec. of the Color Color Program of University Country (1997) Dec. of the Color Color Program of University Country (1997) Dec. of the Color Color Program of University Country (1997) Dec. of the Color Color Program of University Country (1997) Dec. of the Color Color Program of University Color Co	CS_OFFL_SIR_NOPM_2_20230218T191859_20230218T191918_C001		, ,
Section (1997), all NOPH 2 2020/01/17/2017 2020/01/2017 2000 CO OFF, BIR NOPH 2 2020/01/2020/01/2020 2020/01	CS_OFFL_SIR_NOPM_2_20230218T192629_20230218T194750_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SOUTH, SILNOPHI, 2 (2002) MTT-2012 (2012) MTT-	CS_OFFL_SIR_NOPM_2_20230218T194805_20230218T195109_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CG_OFFL_SIR_NOPYL_2_AUGUSTITIOSTITE_ACCESSIVE TOTAL INC. CG_OFFL_SIR_NOPYL_2_AUGUSTITIOSTITE_ACCESSIVE TOTAL INC. CG_OFFL_SIR_NOPYL_2_AUGUSTITIOSTITE ACCESSIVE TOTAL INC. CG_OFFL_SIR_NOPY	CS_OFFL_SIR_NOPM_2_20230218T195753_20230218T200121_C001		
CS. OFFL_SIR_NOPNL2_20202107127545 72020210712908. COID CS. OFFL_SIR_NOPNL2_2020210712754 72020210712908. COID CS. OFFL_SIR_NOPNL2_2020210712754 72020210712908. COID CS. OFFL_SIR_NOPNL2_2020210712754 72020210712908. COID CS. OFFL_SIR_NOPNL2_20202107127555 7. COID CS. OFFL_SIR_NOPNL2_2020210702755 72202017022027. COID CS. OFFL_SIR_NOPNL2_2020210702755 7220217022027. COID CS. OFFL_SIR_NOPNL2_2020210702755 7220217022027. COID CS. OFFL_SIR_NOPNL2_2020210702755 7220217022027. COID CS. OFFL_SIR_NOPNL2_2020210702755 7220217020207. COID CS. OFFL_SIR_NOPNL2_2020210702755 7220217020207. COID CS. OFFL_SIR_NOPNL2_2020210702755 722021702007. COID COOR Alterent Range SSIR_SYM-INCREASE TABLEST TABLEST TO A COID A Recent Range and Backscatter Outsity Flags have been see for coid and coid an	CS_OFFL_SIR_NOPM_2_20230218T200339_20230218T203140_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DS_OFFL_SR_NORM_2_20200219710145_20200219723046_CDDI CS_OFFL_SR_NORM_2_20200219721055_20200219723046_CDDI CS_OFFL_SR_NORM_2_20200219721055_2020021972404_CDDI CS_OFFL_SR_NORM_2_20200219721055_2020021972400_CDDI CS_OFFL_SR_NORM_2_20200219721050_2020110000_CDDI CS_OFFL_SR_NORM_2_20200219721050_2020110000_CDDI CS_OFFL_SR_NORM_2_20200219721050_2020110000_CDDI CS_OFFL_SR_NORM_2_20200219721050_CDDI CS_OFFL_SR_NORM_2_20200219721050_CDDI CS_OFFL_SR_NORM_2_20200219721050_CDDI CS_OFFL_SR_NORM_2_2020021972002100000000000000000000000000	CS_OFFL_SIR_NOPM_2_20230218T210223_20230218T210413_C001		
Description of the control more encods CS_OFFL_SR_NOPM_2_20230218721933_202302*7721938_C00* CS_OFFL_SR_NOPM_2_20230218721933_202302*7721938_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*72219300_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*7221930_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*72219300_C00* CS_OFFL_SR_NOPM_2_20230218723033_202302*72230300* CS_OFFL_SR_NOPM_2_20230218723030_202302*7230300* CS_OFFL_SR_NOPM_2_20230218723030_202302300* CS_OFFL_SR_NOPM_2_20230218723030_202302*7230300* CS_OFFL_SR_NOPM_2_20230218703000_202302*7230300* CS_OFFL_SR_NOPM_2_20230218703000_202302*72303000* CS_OFFL_SR_NOPM_2_20230218703000_202302*72303000* CS_OFFL_SR_NOPM_2_20230218703000_202302*72303000* CS_OFFL_SR_NOPM_2_20230218703000_202302*723030000* CS_OFFL_SR_NOPM_2_20230218703000_202302*723030000* CS_OFFL_SR_NOPM_2_20230218703000_202302*73030000* CS_OFFL_SR_NOPM_2_20230218703000_202302*73030000* CS_OFFL_SR_NOPM_2_20230218703000_202302*730300000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20230218T210415_20230218T213013_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bockscater Quality Bockscater Caulity Bocksc	CS_OFFL_SIR_NOPM_2_20230218T213145_20230218T213646_C001		, ,
and Backaceater Quality Flags have been and the ODCO Altmeter Range and Backaceater Quality Flags have been and the ODCO Altmeter Range and Backaceater Quality Flags have been and backaceater Quality Flags	CS_OFFL_SIR_NOPM_2_20230218T213653_20230218T214021_C001		l
CS_OFFL_SIR_NOPN_2_20230218T231332_02230218T231100_C001 CS_OFFL_SIR_NOPN_2_20230218T231144_20230218T231503_C001 CS_OFFL_SIR_NOPN_2_20230218T231144_20230218T235637_C001 CS_OFFL_SIR_NOPN_2_20230218T232563_20230218T235637_C001 CS_OFFL_SIR_NOPN_2_20230218T232563_20230218T235637_C001 CS_OFFL_SIR_NOPN_2_20230218T232563_20230218T235637_C001 CS_OFFL_SIR_NOPN_2_20230218T23030218T023682_C001 CS_OFFL_SIR_NOPN_2_20230218T1203601_20230218T1203282_C001 CS_OFFL_SIR_NOPN_2_20230218T1203601_20230218T1203282_C001 CS_OFFL_SIR_NOPN_2_20230218T1203601_20230218T1203282_C001 CS_OFFL_SIR_NOPN_2_20230218T1203601_20230218T1203282_C001 CS_OFFL_SIR_NOPN_2_20230218T1203601_20230218T120323_C001 CS_OFFL_SIR_NOPN_2_20230218T1203601_20230218T120323_C001 CS_OFFL_SIR_NOPN_2_20230218T1203602_20230218T235014_C001 CS_OFFL_SIR_NOPN_2_20230218T1203602_20230218T203601_C001 CS_OFFL_SIR_NOPN_2_20230218T022746_20230218T1202611_C001 CS_OFFL_SIR_NOPR_2_20230218T022746_20230218T0222610_C001 CS_OFFL_SIR_NOPR_2_20230218T022746_20230218T022611_C001 CS_OFFL_SIR_NOPR_2_20230218T022746_20230218T03223_C001 CS_OFFL_SIR_NOPR_2_20230218T0303216_20230218T030223_C001 CS_OFFL_SIR_NOPR_2_20230218T0303216_00230218T030223_C001 CS_OFFL_SIR_NOPR_2_20230218T0	CS_OFFL_SIR_NOPM_2_20230218T214331_20230218T221808_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
So. DFFL_SIR_NOPM_2_20230218T23251_20230218T235837_C011 Social Minimeter Range, SSHA, SWH and Backscatter Quality Flags have been and backscatter Quality Flags have	CS_OFFL_SIR_NOPM_2_20230218T230333_20230218T231000_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 and Backscatter Quality Flags have been and Backscatter Quality. CSC OFFL.SIR.NOPN.2.20230218T023758_20230218T023827_CD01 CS_OFFL_SIR.NOPN.2.20230218T023758_20230218T120528_CD01 CS_OFFL_SIR.NOPN.2.20230218T120501_20230218T120528_CD01 CS_OFFL_SIR.NOPN.2.20230218T120501_20230218T120528_CD01 CS_OFFL_SIR.NOPN.2.20230218T120501_20230218T170222_CD01 CS_OFFL_SIR.NOPN.2.20230218T170211_20230218T170222_CD01 CS_OFFL_SIR.NOPN.2.20230218T170211_20230218T170222_CD01 CS_OFFL_SIR.NOPN.2.20230218T170211_20230218T170222_CD01 CS_OFFL_SIR.NOPN.2.20230218T022745_20230218T022811_CD01 CS_OFFL_SIR.NOPN.2.20230218T022745_20230218T022811_CD01 CS_OFFL_SIR.NOPR.2.20230218T022745_20230218T022811_CD01 CS_OFFL_SIR.NOPR.2.20230218T024045_20230218T022811_CD01 CS_OFFL_SIR.NOPR.2.20230218T02405_20230218T0232811_CD01 CS_OFFL_SIR.NOPR.2.20230218T02405_20230218T0232811_CD01 CS_OFFL_SIR.NOPR.2.20230218T02405_20230218T0232811_CD01 CS_OFFL_SIR.NOPR.2.20230218T02405_20230218T023282_CD01 CS_OFFL_SIR.NOPR.2.20230218T02405_20230218T033222_CD01 CS_OFFL_SIR.NOPR.2.20230218T033216_20230218T033222_CD01 CS_OFFL_SIR.NOPR.2.20230218T033216_20230218T033222_CD01 CS_OFFL_SIR.NOPR.2.20230218T040445_20230218T033222_CD01 CS_OFFL_SIR.NOPR.2.20230218T040445_20230218T06066_CD01 CS_OFFL_SIR.NOPR.2.20230218T06043_20230218T06066_CD01 CS_OFFL_SIR.NOPR.2.20230218T06043_202302	CS_OFFL_SIR_NOPM_2_20230218T231144_20230218T231719_C001		
and Backscatter Quality, CCG Altimeter Range and Backscatter Quality and the CCGO Altimeter Range and Backscatter Quality Flags have been at for one or more records CS_OFFL_SIR_NOPN_2_20230218T120501_20230218T120528_C001 CS_OFFL_SIR_NOPN_2_20230218T170211_20230218T170223_C001 CS_OFFL_SIR_NOPN_2_20230218T170211_20230218T170223_C001 CS_OFFL_SIR_NOPN_2_20230218T170211_20230218T170223_C001 CS_OFFL_SIR_NOPN_2_20230218T2356907_20230218T2356914_C001 CS_OFFL_SIR_NOPN_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T0222811_C001 CS_OFFL_SIR_NOPR_2_20230218T024006_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024006_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024006_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040466_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T06006_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T06006_C001 CS_OFFL_SIR_NOPR_2_20230218T06043_20230218T06006_C001 CS_OFFL_SIR_NOPR_2_20230218T06043_20230218T06006_C001 CS_OFFL_SIR_NOPR_2_20230218T06043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_	CS_OFFL_SIR_NOPM_2_20230218T232251_20230218T235637_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPN_2_20230218T170211_20230218T170223_C001 CS_OFFL_SIR_NOPN_2_20230218T170211_20230218T170223_C001 CS_OFFL_SIR_NOPN_2_20230218T235907_20230218T235914_C001 CS_OFFL_SIR_NOPN_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T032405_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T032405_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T032405_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T032405_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T032405_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T032216_20230218T03223 C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T16006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160064_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160064_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160064_C001 CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Cockscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCGG_Altimeter Ra	CS_OFFL_SIR_NOPN_2_20230218T023758_20230218T023827_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPN_2_20230218T235907_20230218T235914_C001 CS_OFFL_SIR_NOPN_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality, Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20230218T120501_20230218T120528_C001		
Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T055955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CCS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CCS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CCS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CCS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CCS_OFFL_SIR_NOPR_2_20230218T160043_20230218T1600054_C001 CCCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records CCCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records CCCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records CCCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records CCCCG_Altimeter Range Quality, OCCG_Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20230218T170211_20230218T170223_C001		
Backscatter Quality CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 Backscatter Quality CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20230218T235907_20230218T235914_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T160054_C001 CCOG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPR_2_20230218T022745_20230218T022811_C001		
CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPR_2_20230218T040445_20230218T040456_C001 CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T224020_C001 CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T23821_20230218T2382	CS_OFFL_SIR_NOPR_2_20230218T024005_20230218T024210_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20230218T1040445_20230218T1040456_C001 Backscatter Quality CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001 CS_OFFL_SIR_NOPR_2_20230218T1223821_20230218T224020_C001 CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T224020_C001 CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T224020_C001 CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T224020_C001 CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T224020_C001	CS_OFFL_SIR_NOPR_2_20230218T033216_20230218T033223_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20230218T155955_20230218T160006_C001 Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been 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_NOPR_2_20230218T040445_20230218T040456_C001		, ,
CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_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_NOPR_2_20230218T155955_20230218T160006_C001		
US OFFI SIR NOPR 2 202302181223821 202302181224020 C001	CS_OFFL_SIR_NOPR_2_20230218T160043_20230218T160054_C001		1.
	CS_OFFL_SIR_NOPR_2_20230218T223821_20230218T224020_C001		

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

75

Product	Test Failed	Description
1 Todaot		
CS_OFFL_SIR_NOPN_2_20230218T005916_20230218T005944_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_20230218T010906_20230218T010911_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_20230218T011631_20230218T012003_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_20230218T023135_20230218T023148_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_20230218T024220_20230218T024305_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_20230218T032123_20230218T032357_C001	TAITIMETER RANGE AND BACKSCATTER CHAITIVE	The Ocean Altimeter Range, SSHA, SWH 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_20230218T032551_20230218T032834_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_20230218T042207_20230218T042318_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_20230218T055603_20230218T055814_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230218T055925_20230218T060154_C001	TAINMETER RANGE AND BACKSCARER CJUAINV	The Ocean Altimeter Range, SSHA, SWH 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_20230218T060354_20230218T060515_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_20230218T061835_20230218T062107_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_20230218T071552_20230218T071901_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_20230218T072617_20230218T072638_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_20230218T073517_20230218T074004_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_20230218T081825_20230218T081950_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230218T082135_20230218T082237_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230218T095800_20230218T100154_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_20230218T105720_20230218T105819_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_20230218T132519_20230218T132643_C001	, and the second	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230218T155336_20230218T155424_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_20230218T160141_20230218T160215_C001	TAITIMETER RANGE AND BACKSCATTER CJUALITY	The Ocean Altimeter Range, SSHA, SWH 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_20230218T163218_20230218T163401_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_20230218T164104_20230218T164324_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_20230218T165843_20230218T165949_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_20230218T170223_20230218T170250_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_20230218T195129_20230218T195401_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_20230218T200122_20230218T200305_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_20230218T213014_20230218T213144_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_20230218T221808_20230218T221943_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_20230218T225039_20230218T225413_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_20230218T004759_20230218T005009_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_20230218T011016_20230218T011130_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_20230218T022443_20230218T022501_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_20230218T022504_20230218T022732_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_20230218T022745_20230218T022811_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_20230218T024005_20230218T024210_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_20230218T033216_20230218T033223_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_20230218T040432_20230218T040440_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_20230218T043703_20230218T044110_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_20230218T055008_20230218T055102_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_20230218T055814_20230218T055925_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_20230218T065121_20230218T065128_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_20230218T091017_20230218T091546_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_20230218T103019_20230218T103043_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_20230218T103612_20230218T103717_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_20230218T104508_20230218T104545_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_20230218T104854_20230218T104901_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_20230218T104928_20230218T105719_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_20230218T105819_20230218T105831_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_20230218T105852_20230218T105901_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_20230218T121543_20230218T121600_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_20230218T121722_20230218T121840_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_20230218T122047_20230218T122224_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_20230218T122625_20230218T124029_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_20230218T140858_20230218T141617_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_20230218T141620_20230218T141634_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_20230218T154755_20230218T155335_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_20230218T160022_20230218T160029_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_20230218T164324_20230218T164819_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_20230218T171614_20230218T171812_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_20230218T171952_20230218T172110_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_20230218T172407_20230218T172457_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_20230218T172710_20230218T173400_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_20230218T174743_20230218T175207_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_20230218T185838_20230218T190044_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_20230218T190534_20230218T191051_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_20230218T192554_20230218T192629_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_20230218T194750_20230218T194804_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_20230218T204339_20230218T205331_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_20230218T221945_20230218T222019_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_20230218T222131_20230218T222905_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_20230218T222931_20230218T223426_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_20230218T232037_20230218T232251_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_20230218T235745_20230218T235907_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

182

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

Number of products with errors:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors: 60

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors: 128

7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	218	218	1	217	0
SIR_NOPR1B	150	150	0	150	0
SIR_NOPN1B	100	100	1	99	0
SIR_NOPM_2	218	218	154	64	0
SIR_NOPR_2	150	150	80	69	1
SIR NOPN 2	100	100	37	63	0

7.1 QCC Errors

Number of QCC reports with errors:

4

Total number of occurrences of each error

Product Type RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2 1	1	1	1							

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

7.2 QCC Warnings

Product Type

Number of QCC reports with warnings

BCSHNCDF

1710

IOHHMOOR

Total number of occurrences of each warning

MVIOEPFDNCDF MVIOEPNCDF MVIONCDF

RBSZOPOEPFDNCDF

RBSZOPOEPFDPLRMNCD

SIR_NOPM1B	217	0	0	0	0	0	0
SIR_NOPM_2	0	0	44	44	0	52	0
SIR_NOPN1B	96	0	0	0	0	0	0
SIR_NOPN_2	0	0	7	27	2	16	16
SIR_NOPR1B	143	0	0	0	0	0	0
SIR_NOPR_2	0	1	22	35	0	24	25
	•		-				1

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	42	0	37	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	9	0	0	0	13	0	27
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	12	2	0	34	0	40	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	0	6	31	0	6
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	19	11	42	47	34
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	34	0	1	49	29	12

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	1	0	0	0
SIR_NOPM_2	41	0	1	1	0	0	0
SIR_NOPN1B	0	0	0	0	0	40	0
SIR_NOPN_2	20	21	8	0	0	0	0
SIR_NOPR1B	0	0	0	0	0	150	15
SIR_NOPR_2	30	34	2	0	6	0	0

Test Description Key:				
Abbreviation	Test name	Details		
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter		
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)		
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only		
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPFDPLRM NCDF	IRANGEBACKSCATTERSIGMAZETOLIPLICEANEXCUIDINGPOIATELIZPLRIVINIETLIJE	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		

RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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
NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	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 F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start 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

7.3 Missing QCC Reports

Number of products with missing QCC reports: