

1. Overview

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

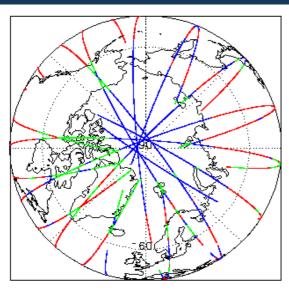
We would love to hear from you!

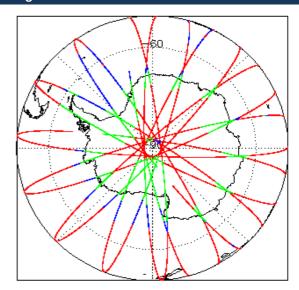
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

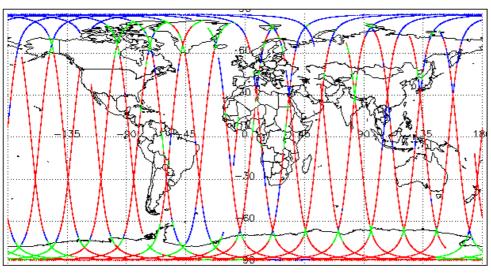
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

N	Mission / Instrument News	
	18-Mar-2023	None
	19-Mar-2023	None
	20-Mar-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 I1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

^

3

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_20230319T062516_20230319T070022_C001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20230319T162153_20230319T163033_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20230319T225919_20230319T230007_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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230319T045640_20230319T052101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230319T105644_20230319T105927_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230319T145924_20230319T151513_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230319T154756_20230319T155913_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230319T212358_20230319T212413_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230319T012504_20230319T012550_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230319T094155_20230319T094314_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230319T124737_20230319T124952_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230319T142417_20230319T142544_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230319T160414_20230319T160713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230319T225123_20230319T225210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230319T040937_20230319T041116_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230319T044436_20230319T044517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230319T125149_20230319T125906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230319T130251_20230319T130343_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230319T155951_20230319T160054_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230319T160250_20230319T160414_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:

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).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230319T092014_20230319T092122_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20230319T212553_20230319T212729_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_20230319T002339_20230319T002646_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_20230319T002937_20230319T003318_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_20230319T020416_20230319T020650_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_20230319T025924_20230319T030042_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_20230319T033912_20230319T034530_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_20230319T043859_20230319T044107_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_20230319T052139_20230319T052314_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_20230319T053208_20230319T053408_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_20230319T061812_20230319T062258_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_20230319T070958_20230319T071226_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_20230319T084056_20230319T084448_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_20230319T093120_20230319T093217_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_20230319T102041_20230319T102354_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_20230319T102909_20230319T103022_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_20230319T115804_20230319T120227_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_20230319T120813_20230319T120932_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_20230319T124605_20230319T124656_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_20230319T124737_20230319T124952_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230319T134547_20230319T134734_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_20230319T142953_20230319T143054_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_20230319T143624_20230319T143713_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_20230319T152354_20230319T152619_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_20230319T160414_20230319T160713_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_20230319T160748_20230319T160959_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_20230319T165359_20230319T165619_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_20230319T170258_20230319T170454_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

	1	1
CS_OFFL_SIR_NOPN_2_20230319T174431_20230319T174822_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_20230319T183418_20230319T183650_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_20230319T184413_20230319T184556_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_20230319T215321_20230319T215439_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_20230319T220011_20230319T220328_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_20230319T233245_20230319T233359_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_20230319T233908_20230319T234222_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_NOPR_2_20230319T074837_20230319T075845_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_20230319T092122_20230319T092300_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_20230319T093218_20230319T094006_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_20230319T111149_20230319T112311_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_20230319T125149_20230319T125906_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_20230319T143054_20230319T143624_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_20230319T155951_20230319T160054_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_20230319T160250_20230319T160414_C001	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 Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPR_2_20230319T160959_20230319T161652_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_20230319T174823_20230319T175334_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_20230319T192604_20230319T193353_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_20230319T210427_20230319T211156_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_20230319T212107_20230319T212303_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230319T062516_20230319T070022_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20230319T162152_20230319T163033_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20230319T225919_20230319T230007_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230319T000202_20230319T000740_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_20230319T003528_20230319T010253_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_20230319T010433_20230319T010737_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_20230319T012550_20230319T013241_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_20230319T013254_20230319T015714_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_20230319T021106_20230319T021336_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_20230319T021517_20230319T022003_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_20230319T022054_20230319T023200_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_20230319T023205_20230319T024240_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_20230319T030043_20230319T030440_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_20230319T030607_20230319T030814_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_20230319T030944_20230319T032149_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_20230319T033033_20230319T033912_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_20230319T034531_20230319T034802_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_20230319T035432_20230319T040937_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_20230319T041117_20230319T041516_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_20230319T044517_20230319T044644_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_20230319T044806_20230319T045517_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_20230319T045640_20230319T052101_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_20230319T052314_20230319T053208_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_20230319T053408_20230319T055817_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_20230319T062516_20230319T070022_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_20230319T070533_20230319T070957_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_20230319T071256_20230319T073843_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_20230319T080704_20230319T080952_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_20230319T081002_20230319T083922_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_20230319T084448_20230319T085037_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_20230319T085202_20230319T090752_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

COUNTS AND ADMINISTRATION AS 200001971 (1900, 200001971 (CS_OFFL_SIR_NOPM_2_20230319T090757_20230319T091834_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
Secretary Castle Secretary Ca	CS_OFFL_SIR_NOPM_2_20230319T094314_20230319T101823_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SOLOFFE, SRI, NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_202019T10905_0001 COUNT_SRI_NOPM_2_2020019T10905_0001 COUNT_SRI_NOPM_2_2020019T	CS_OFFL_SIR_NOPM_2_20230319T102355_20230319T102909_C001		
So CPIL SIR NOPM 2 INSIGNITY 10869 2020019T10069 2020019T10069 2020019T10069 20000 Allered Repair of Decouplement Castley Flags have been and compared to the	CS_OFFL_SIR_NOPM_2_20230319T103045_20230319T103353_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
See CHEL. SER. NOPML 2. 20200191710092, 202001917104092, 202001917104092, 20200191710592, 20200191710092, 20200191710593, 20200191710593, 2020	CS_OFFL_SIR_NOPM_2_20230319T103554_20230319T103937_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFFL SRI NOPM 2 2020019T1100S 2020319T11319 C001 CS OFFL SRI NOPM 2 2020019T112011 2020319T11319 C001 CS OFFL SRI NOPM 2 2020019T113415 2020319T11319 C001 CS OFFL SRI NOPM 2 2020019T12012 2020319T11319 C001 CS OFFL SRI NOPM 2 2020019T12010 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12002 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12002 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12002 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12003 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12003 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12003 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12000 2020319T120010 C001 CS OFFL SRI NOPM 2 2020019T12000 2020319T12010 C001 CS OFFL SRI NOPM 2 2020019T12000 2020319T120010 C001 CS OFFL SRI NOPM 2 2020019T13000 2020319T130010 C001 CS OFFL SRI NOPM 2 2020019T13000 2020319T140000 C001 CS OFFL SRI NO	CS_OFFL_SIR_NOPM_2_20230319T104553_20230319T104737_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COGA Affenter Range and Backscatter Quality Regs have been act for one no notices CS OFFL SIR NOPM 2 20200197113445 20200397115716 CO91 CS OFFL SIR NOPM 2 2020019712445 20200397110716 CO91 CS OFFL SIR NOPM 2 20200197120227 20200397110096, CO91 CS OFFL SIR NOPM 2 20200197120297 20200397110097, CO91 CS OFFL SIR NOPM 2 20200197120097, CO91 CS OFFL SIR NOPM 2 20200197130097, CO20 CS	CS_OFFL_SIR_NOPM_2_20230319T110625_20230319T110908_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_0220319T13042_0220319T13056_001 CS_OFFL_SIR_NOPM_2_0220319T12042_0220319T12056_001 CS_OFFL_SIR_NOPM_2_0220319T12040_0220319T120576_001 CS_OFFL_SIR_NOPM_2_0220319T12040_0220319T12058_001 CS_OFFL_SIR_NOPM_2_0220319T12040_0220319T120590 CS_OFFL_SIR_NOPM_2_0220319T12040_0220319T120590 CS_OFFL_SIR_NOPM_2_0220319T120590 CS_OFFL_SIR_NOPM_2_0220319T130591 CS_OFFL_SIR_NOPM_2_0220319T130591 CS_OFFL_SIR_NOPM_2_0220319T130591 CS_OFFL_SIR_NOPM_2_0220319T130590 CS_OFFL_SIR_NOPM_2_02203	CS_OFFL_SIR_NOPM_2_20230319T112311_20230319T113159_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Caulaly CS OFFL SIR NOPM 2 20230319T120403 20230319T120280 CO01 Schemeter Range Caulaty, OCOC Affinited Range, SSHA, SWH and Subclocatific Caulaty Range and Backscatter Caulaty Caulaty Range and Backscatter Caulaty Range Range, SSHA, SWH and Subclocatific Caulaty Range Range, SSHA, SWH and Subclocatific Caulaty Range Range, SSHA, SWH and Subclocatific Range Caulaty Range Caulaty Range Range, SSHA, SWH and Subclocatter Caulaty Range Caulaty Range Caulaty Range Caulaty Range Range, SSHA, SWH and Subclocatter Caulaty Range Range Caulaty Range Caulaty Range Range Caulaty Ra	CS_OFFL_SIR_NOPM_2_20230319T113445_20230319T115718_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20230319712096_202303197122230_C001 CS_OFFL_SIR_NOPM_2_20230319712096_202303197122230_C001 CS_OFFL_SIR_NOPM_2_20230319712096_202303197122230_C001 CS_OFFL_SIR_NOPM_2_20230319712508_202303197122324_C001 CS_OFFL_SIR_NOPM_2_20230319712508_202303197122324_C001 CS_OFFL_SIR_NOPM_2_20230319712508_20230319712378_C001 CS_OFFL_SIR_NOPM_2_20230319712508_20230319712378_C001 CS_OFFL_SIR_NOPM_2_20230319712508_20230319712378_C001 CS_OFFL_SIR_NOPM_2_20230319713049_20230319713005. CS_OFFL_SIR_NOPM_2_20230319713049_20230319713058_C001 CS_OFFL_SIR_NOPM_2_20230319713049_20230319713058_C001 CS_OFFL_SIR_NOPM_2_20230319713049_20230319713058_C001 CS_OFFL_SIR_NOPM_2_20230319713049_20230319713058_C001 CS_OFFL_SIR_NOPM_2_20230319713049_20230319713058_C001 CS_OFFL_SIR_NOPM_2_20230319713059_20230319713058_C001 CC_OCA_Rimeter Range_Cuslity, COCA_Rimeter Range_Cuslity, COC	CS_OFFL_SIR_NOPM_2_20230319T120227_20230319T120356_C001		
and Backscatter Cuality Flags have been affairmeter Range and Backscatter	CS_OFFL_SIR_NOPM_2_20230319T120403_20230319T120812_C001		
CS_OFFL_SIR_NOPM_2_20230319T123320_20230319T123726_C001 CS_OFFL_SIR_NOPM_2_20230319T123320_20230319T123726_C001 CS_OFFL_SIR_NOPM_2_20230319T123320_20230319T123726_C001 CS_OFFL_SIR_NOPM_2_20230319T123320_20230319T130031_C001 CS_OFFL_SIR_NOPM_2_20230319T123320_20230319T130031_C001 CS_OFFL_SIR_NOPM_2_20230319T130047_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130047_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130047_20230319T130586_C001 CS_OFFL_SIR_NOPM_2_20230319T130047_20230319T130588_C001 CS_OFFL_SIR_NOPM_2_20230319T130047_20230319T134566_C001 CS_OFFL_SIR_NOPM_2_20230319T134515_20230319T134566_C001 CS_OFFL_SIR_NOPM_2_20230319T134515_20230319T134566_C001 CS_OFFL_SIR_NOPM_2_20230319T1445852_20230319T1440826_C001 CS_OFFL_SIR_NOPM_2_20230319T1445852_2030319T1445852_C001 CS_OFFL_SIR_NOPM_2_20230319T144584_20230319T1445852_C001 CC_OCA_Allimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230319T145824_20230319T145852_C001 CC_OCA_Allimeter Range and Backscatter Quality Flags have been set for one or more records CC_OCA_Allimeter Range and Backscatter Quality Flags have been set for one or more records CC_OCA_Allimeter Range and Backscatter Quality Flags have been set for one or more records CC_OCA_Allimeter Range and Backscatter Quality Flags have been set for one or more records CC_OCA_Allimeter Range and Backscatter Quality Flags have been set for one or more records CC_OCA_Allimeter Range and Backscatter Quality Flags hav	CS_OFFL_SIR_NOPM_2_20230319T120956_20230319T122320_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_NOPM_2_20230319T125942_20230319T130031_C001 CS_OFFL_SIR_NOPM_2_20230319T130343_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130343_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130343_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130907_20230319T130558_C001 CS_OFFL_SIR_NOPM_2_20230319T130907_20230319T130558_C001 CS_OFFL_SIR_NOPM_2_20230319T130907_20230319T130558_C001 CS_OFFL_SIR_NOPM_2_20230319T130907_20230319T13058_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T14068_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T14068_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T14068_C001 CS_OFFL_SIR_NOPM_2_20230319T142004_200319T14209_C001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T14209_C001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T14209_C001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T14209_C001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T14209_C001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T142004_2001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T142004_2001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T142004_2001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T142004_2001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T142004_2001 CS_OFFL_SIR_NOPM_2_20230319T142004_20230319T15153_C001 CS_OFFL_SIR_NOPM_	CS_OFFL_SIR_NOPM_2_20230319T122508_20230319T123224_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230319T130343_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130343_20230319T130728_C001 CS_OFFL_SIR_NOPM_2_20230319T130907_20230319T133558_C001 CS_OFFL_SIR_NOPM_2_20230319T133728_20230319T134256_C001 CS_OFFL_SIR_NOPM_2_20230319T133728_20230319T134256_C001 CS_OFFL_SIR_NOPM_2_20230319T134375_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142962_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T144804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T15513_C001 CCS_OFFL_SIR_NOPM_2_20230319T145924_20230319T15513_C001 CCS_OFFL_SIR_NOPM_2_20230319T145924_20230319T15513_C001 CCS_OFFL_SIR_NOPM_2_20230319T15656_20230319T15513_C001 CCCS_Allimeter Range Quality, CCCG Allimeter Range and Backscatter Quality Flags have been set for one or more records CCCS_Allimeter Range and Backscatter Quality Flags have been set for one or more records CCCS_Allimeter Range and Backscatter Quality Flags have been set for one or more records CCCS_Allimeter Range and Backscatter Quality Flags have been set for one or more records CCCS_Allimeter Range and Backscatter Quality Flags have been set for one or more records CCCS_Allimeter Range	CS_OFFL_SIR_NOPM_2_20230319T123320_20230319T123726_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230319T133728_20230319T134256_C001 CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T13456_C001 CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T13456_C001 CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142502_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142502_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145724_C001	CS_OFFL_SIR_NOPM_2_20230319T125942_20230319T130031_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230319T133728_20230319T134256_C001 CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T146628_C001 CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T14400_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CCG_Altimeter Range Quality, CCCG Altimeter Range Cuality, CCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCG_Altimeter Range and Backscatter Quality Flags have been set for one or mor	CS_OFFL_SIR_NOPM_2_20230319T130343_20230319T130728_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T134546_C001 CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142522_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142522_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151552214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1522153_C001 CS_OFFL_SIR_NOPM_2_20230319T151552214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1522153_C001 CS_OFFL_SIR_NOPM_2_20230319T1522153_C001 CS_OFFL_SIR_NOPM_2_20230319T151552214_20230319T152153_C001 CCOGA Altimeter Range Quality, OCOGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records CCOGA Altimeter Range And Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20230319T130907_20230319T133558_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T140628_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T14252_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T14252_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20230319T133728_20230319T134256_C001		
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Set for one or more records CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145724_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515152214_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T1515153_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153225_C001 CS_OFFL_SIR_NOPM_2_20230319T15153235_C001 CS_OFFL_SIR_NOPM_2_20230319T15153235_C001 CS_OFFL_SIR_NOPM_	CS_OFFL_SIR_NOPM_2_20230319T134315_20230319T134546_C001		
CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T15656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T152214_20230319T152235_C001 CCG_Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230319T152314_20230319T152153_C001 CCG_Altimeter Range Quality, OCOG Backscatter Quality, OC	CS_OFFL_SIR_NOPM_2_20230319T135359_20230319T140628_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T14292_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145721_C001 CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151553_C001 CS_OFFL_SIR_NOPM_2_20230319T151553_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T152153_C001 CCOG Altimeter Range Quality, OCOG Backscatter 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	CS_OFFL_SIR_NOPM_2_20230319T140659_20230319T142409_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_NOPM_2_20230319T145924_20230319T151513_C001 CS_OFFL_SIR_NOPM_2_20230319T151566_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T152153_C001	CS_OFFL_SIR_NOPM_2_20230319T142804_20230319T142952_C001		
CS_OFFL_SIR_NOPM_2_20230319T145924_20230319T15133_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T152154_20230319T152153_C001 CS_OFFL_SIR_NOPM_2_20230319T152214_20230319T152255_C001 CS_OFFL_SIR_NOPM_2_20230319T152214_20230319T152255_C001 CS_OFFL_SIR_NOPM_2_20230319T152214_20230319T152255_C001 CS_OFFL_SIR_NOPM_2_20230319T152214_20230319T152255_C001	CS_OFFL_SIR_NOPM_2_20230319T144739_20230319T145721_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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_20230319T145924_20230319T151513_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20230319T151656_20230319T152153_C001		
	CS_OFFL_SIR_NOPM_2_20230319T152214_20230319T152225_C001		

CS_OFFL_SIR_NOPM_2_20230319T153100_20230319T154142_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_20230319T154756_20230319T155913_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_20230319T163849_20230319T165358_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_20230319T165619_20230319T170107_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_20230319T170721_20230319T173054_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_20230319T173120_20230319T173440_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_20230319T180140_20230319T180155_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_20230319T180912_20230319T182951_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_20230319T183039_20230319T183348_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_20230319T183650_20230319T184023_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_20230319T184046_20230319T184413_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_20230319T184636_20230319T191357_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_20230319T194700_20230319T201312_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_20230319T201441_20230319T201938_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_20230319T201946_20230319T202314_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_20230319T202612_20230319T210116_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_20230319T212553_20230319T212729_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_20230319T214628_20230319T214750_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_20230319T214950_20230319T215259_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_20230319T215440_20230319T220011_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_20230319T220519_20230319T223933_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_20230319T225310_20230319T225430_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_20230319T231231_20230319T233213_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_20230319T234423_20230320T001852_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_20230319T012045_20230319T012134_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_20230319T021337_20230319T021510_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_20230319T053208_20230319T053408_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_20230319T094007_20230319T094110_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T094155_20230319T094314_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_20230319T010738_20230319T011002_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_20230319T015714_20230319T020415_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_20230319T043255_20230319T043405_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_20230319T044436_20230319T044517_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_20230319T092619_20230319T092637_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_20230319T094127_20230319T094151_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_20230319T125911_20230319T125914_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_20230319T144315_20230319T144351_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_20230319T174157_20230319T174216_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_20230319T210244_20230319T210316_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_20230319T212107_20230319T212303_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_20230319T214750_20230319T214949_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20230318T235928_20230319T000202_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T002339_20230319T002646_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_20230319T002937_20230319T0033318_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_20230319T012137_20230319T012334_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_20230319T020416_20230319T020650_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_20230319T024425_20230319T024632_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_20230319T032703_20230319T032809_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_20230319T043406_20230319T043443_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_20230319T044644_20230319T044750_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_20230319T045517_20230319T045639_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_20230319T055843_20230319T060146_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_20230319T070116_20230319T070245_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_20230319T070425_20230319T070532_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_20230319T092637_20230319T092801_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_20230319T094155_20230319T094314_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_20230319T110119_20230319T110210_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_20230319T120813_20230319T120932_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_20230319T124737_20230319T124952_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_20230319T142953_20230319T143054_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_20230319T152354_20230319T152619_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_20230319T154440_20230319T154755_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_20230319T160414_20230319T160713_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_20230319T160414_20230319T160713_C001 CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001	0 ,	, ,
	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001 CS_OFFL_SIR_NOPN_2_20230319T212730_20230319T212835_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001 CS_OFFL_SIR_NOPN_2_20230319T212730_20230319T212835_C001 CS_OFFL_SIR_NOPN_2_20230319T213332_20230319T213608_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001 CS_OFFL_SIR_NOPN_2_20230319T212730_20230319T212835_C001 CS_OFFL_SIR_NOPN_2_20230319T213332_20230319T213608_C001 CS_OFFL_SIR_NOPN_2_20230319T220011_20230319T220328_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001 CS_OFFL_SIR_NOPN_2_20230319T212730_20230319T212835_C001 CS_OFFL_SIR_NOPN_2_20230319T213332_20230319T213608_C001 CS_OFFL_SIR_NOPN_2_20230319T220011_20230319T220328_C001 CS_OFFL_SIR_NOPN_2_20230319T225123_20230319T225210_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001 CS_OFFL_SIR_NOPN_2_20230319T212730_20230319T212835_C001 CS_OFFL_SIR_NOPN_2_20230319T213332_20230319T213608_C001 CS_OFFL_SIR_NOPN_2_20230319T220011_20230319T220328_C001 CS_OFFL_SIR_NOPN_2_20230319T225123_20230319T225210_C001 CS_OFFL_SIR_NOPN_2_20230319T225123_20230319T225554_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20230319T160748_20230319T160959_C001 CS_OFFL_SIR_NOPN_2_20230319T180537_20230319T180835_C001 CS_OFFL_SIR_NOPN_2_20230319T211156_20230319T211219_C001 CS_OFFL_SIR_NOPN_2_20230319T212730_20230319T212835_C001 CS_OFFL_SIR_NOPN_2_20230319T213332_20230319T213608_C001 CS_OFFL_SIR_NOPN_2_20230319T220011_20230319T220328_C001 CS_OFFL_SIR_NOPN_2_20230319T225123_20230319T225210_C001 CS_OFFL_SIR_NOPN_2_20230319T225431_20230319T225554_C001 CS_OFFL_SIR_NOPN_2_20230319T225431_20230319T2233359_C001	OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_NOPR_2_20230319T010738_20230319T011002_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_20230319T011003_20230319T011025_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_20230319T015714_20230319T020415_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_20230319T022003_20230319T022054_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_20230319T032150_20230319T032403_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_20230319T040937_20230319T041116_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_20230319T070023_20230319T070116_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_20230319T074837_20230319T075845_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_20230319T091835_20230319T092014_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_20230319T092801_20230319T092835_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_20230319T093218_20230319T094006_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_20230319T105927_20230319T110118_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_20230319T111149_20230319T112311_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_20230319T125149_20230319T125906_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_20230319T125907_20230319T125908_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_20230319T125915_20230319T125926_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_20230319T130058_20230319T130137_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_20230319T134735_20230319T135019_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_20230319T140628_20230319T140658_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_20230319T143054_20230319T143624_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_20230319T144114_20230319T144123_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_20230319T144544_20230319T144738_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_20230319T152620_20230319T152904_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_20230319T160250_20230319T160414_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_20230319T160959_20230319T161652_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_20230319T175409_20230319T175540_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_20230319T180217_20230319T180244_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_20230319T192604_20230319T193353_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_20230319T193409_20230319T193658_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_20230319T193658_20230319T193701_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_20230319T210244_20230319T210316_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_20230319T210427_20230319T211156_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_20230319T211441_20230319T211720_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_20230319T212107_20230319T212303_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_20230319T225617_20230319T225859_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_20230319T234222_20230319T234423_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.

> 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:

iniber of products with circles.

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:

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:

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	176	176	7	169	0
SIR_NOPR1B	134	134	0	134	0
SIR_NOPN1B	109	109	5	104	0
SIR_NOPM_2	176	176	120	56	0
SIR_NOPR_2	134	134	68	65	1
SIR_NOPN_2	109	109	42	67	0

7.1 QCC Errors

Product Type RLOBOPNCDF SIR_NOPR_2 1

Number of QCC reports with errors:

RL

0

46 0 4

0

Total number of occurrences of each error							
-	-	-	-	-	-	-	

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		

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7.2 QCC Warnings

Product Type

SIR NOPM1B

SIR_NOPM_2

SIR_NOPN1B

SIR_NOPN_2

SIR_NOPR1B

SIR_NOPR_2

Number of QCC reports with warnings

BCSHNCDF

169

104

129

1615

IOHHMOOR

0

0

0

RLOBOPNCDF

Total number of occurrences of each warning							
EPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD			
	0	0	0	0			
	43	0	47	0			
	0	0	0	0			
	26	4	20	22			
	0	0	0	0			

24

22

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	41	0	40	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	10	1	0	0	11	0	25
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	12	3	0	28	0	35	0

Pro	oduct Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
	R NOPM1B	0	0	0	0	0	0	0
	_	29	0	0	5	31	0	5
	R NOPN1B	0	0	0	0	0	0	0
	R NOPN 2	0	0	15	20	47	57	30
	R NOPR1B	0	0	0	0	0	0	0
	R NOPR 2	0	27	0	4	49	26	7

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR NOPM1B	0	0	0	0	0	0	0
SIR NOPM 2	40	0	5	0	0	0	0
SIR NOPN1B	0	0	0	0	0	46	0
SIR NOPN 2	22	24	13	0	1	0	0
SIR NOPR1B	0	0	0	1	0	134	11
SIR NOPR 2	19	29	2	0	4	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	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
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					
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