QA4EO Daily Report for NOP data: 02/08/2022

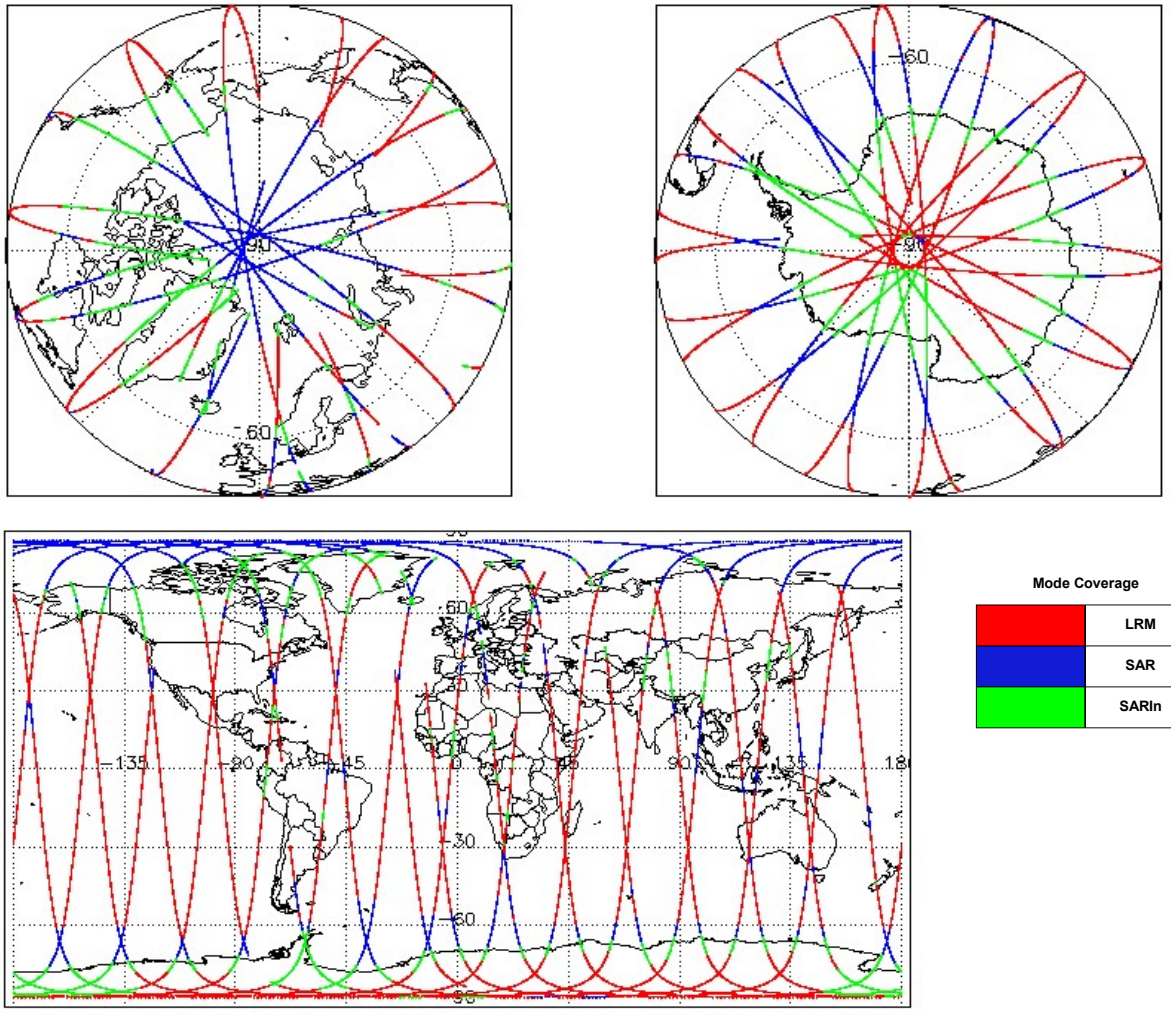
1. Overview

Report Production:	04-Aug-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

Mission / Instrument News	
01-Aug-2022	None
02-Aug-2022	None
03-Aug-2022	SIRAL unavailability due to orbit manoeuvre 16:29:46 - 18:15:58

2. Global Coverage



3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors: 0

4.2 L1B Product Header Analysis

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

> L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the l1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors: 0

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: 0

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. 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: 2

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20220802T052727_20220802T053653_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20220802T202906_20220802T203041_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

> Loss of Echo Flag: This flag is currently set for occasional products over land, but this is to be expected.

Number of products with errors: 20

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20220802T074111_20220802T080620_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20220802T102538_20220802T103712_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20220802T233702_20220802T234145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T004510_20220802T004623_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T022040_20220802T022538_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T031821_20220802T032433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T040013_20220802T040424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T071346_20220802T071940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T091736_20220802T091836_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T153754_20220802T153853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T154257_20220802T154509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T172211_20220802T172700_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T204557_20220802T204719_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T220924_20220802T221050_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T230236_20220802T230644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T235227_20220802T235338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20220802T235518_20220802T235554_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220802T035655_20220802T040012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220802T064001_20220802T064220_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20220802T130121_20220802T130820_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: 0

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors: 40

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220802T172700_20220802T172753_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20220802T000247_20220802T000355_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_20220802T004510_20220802T004623_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_20220802T022040_20220802T022538_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_20220802T031821_20220802T032433_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_20220802T040013_20220802T040424_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_20220802T044900_20220802T045122_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_20220802T053859_20220802T054247_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_20220802T063844_20220802T064000_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_20220802T081751_20220802T081907_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_20220802T091736_20220802T091836_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_20220802T094754_20220802T094920_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_20220802T095442_20220802T095750_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_20220802T112738_20220802T112945_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_20220802T113342_20220802T113712_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_20220802T130820_20220802T131055_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_20220802T140330_20220802T140450_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_20220802T144349_20220802T144943_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_20220802T153754_20220802T153853_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_20220802T154257_20220802T154509_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_20220802T163609_20220802T163808_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_20220802T172211_20220802T172700_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_20220802T194624_20220802T194852_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_20220802T212447_20220802T212759_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_20220802T230236_20220802T230644_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_20220802T231217_20220802T231342_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_20220802T235227_20220802T235338_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20220802T235518_20220802T235554_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20220802T004624_20220802T005342_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_20220802T022539_20220802T023310_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_20220802T040424_20220802T041118_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_20220802T054247_20220802T055116_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_20220802T071941_20220802T072723_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_20220802T153857_20220802T154257_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_20220802T185717_20220802T190237_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_20220802T202525_20220802T202724_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_20220802T203624_20220802T204419_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_20220802T221449_20220802T222347_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_20220802T235555_20220802T235855_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_20220802T235855_20220803T000342_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 2

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220802T052727_20220802T053653_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_20220802T202906_20220802T203041_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: 97

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220801T235835_20220802T000247_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_20220802T000734_20220802T003318_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_20220802T005343_20220802T010805_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_20220802T011246_20220802T012443_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_20220802T012631_20220802T012943_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_20220802T013209_20220802T013728_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_20220802T014841_20220802T020105_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_20220802T020312_20220802T022039_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_20220802T024238_20220802T025208_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_20220802T025410_20220802T030839_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_20220802T031135_20220802T031630_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_20220802T032531_20220802T032646_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_20220802T034234_20220802T034355_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_20220802T034819_20220802T035046_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_20220802T042408_20220802T042511_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_20220802T043206_20220802T044737_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_20220802T045123_20220802T045558_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_20220802T045604_20220802T045613_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_20220802T050319_20220802T052716_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_20220802T055815_20220802T055830_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_20220802T060201_20220802T062645_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_20220802T063519_20220802T063844_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_20220802T064220_20220802T070919_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_20220802T071044_20220802T071345_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_20220802T073024_20220802T073644_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_20220802T074111_20220802T080620_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_20220802T080937_20220802T081415_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_20220802T082237_20220802T085534_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_20220802T090804_20220802T091045_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_20220802T091724_20220802T091736_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_20220802T093937_20220802T094227_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_20220802T094920_20220802T095441_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_20220802T100144_20220802T102251_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_20220802T102537_20220802T103712_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_20220802T104644_20220802T105101_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_20220802T110656_20220802T111143_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_20220802T111331_20220802T112344_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_20220802T112945_20220802T113342_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_20220802T114055_20220802T114549_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_20220802T114558_20220802T115130_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_20220802T115355_20220802T121712_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_20220802T123056_20220802T123654_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_20220802T123805_20220802T130120_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_20220802T132019_20220802T132619_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_20220802T132639_20220802T133712_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_20220802T134153_20220802T134856_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_20220802T140451_20220802T140825_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_20220802T141020_20220802T141611_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_20220802T141738_20220802T142553_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_20220802T143213_20220802T144252_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_20220802T144943_20220802T145203_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_20220802T145238_20220802T145659_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_20220802T145937_20220802T150546_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_20220802T150700_20220802T151341_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_20220802T151521_20220802T153000_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_20220802T155655_20220802T155922_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_20220802T160044_20220802T160513_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_20220802T160845_20220802T162335_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_20220802T162732_20220802T163608_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_20220802T163926_20220802T170111_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_20220802T173841_20220802T180307_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_20220802T180647_20220802T180835_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_20220802T180934_20220802T181409_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_20220802T181906_20220802T182136_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_20220802T182236_20220802T184645_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_20220802T185510_20220802T185559_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_20220802T191558_20220802T194121_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_20220802T194852_20220802T195445_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_20220802T195735_20220802T201729_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_20220802T203343_20220802T203513_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_20220802T204720_20220802T212037_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_20220802T212800_20220802T213317_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_20220802T213702_20220802T213758_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_20220802T213957_20220802T214153_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_20220802T220632_20220802T220636_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_20220802T221051_20220802T221448_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_20220802T222512_20220802T223602_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_20220802T223848_20220802T230001_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_20220802T230645_20220802T230802_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_20220802T230810_20220802T231216_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_20220802T231724_20220802T232723_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_20220802T232911_20220802T233526_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_20220802T233702_20220802T234145_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_20220802T041121_20220802T041134_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_20220802T063513_20220802T063519_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_20220802T131249_20220802T131552_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_20220802T140826_20220802T141020_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_20220802T145700_20220802T145838_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_20220802T195446_20220802T195612_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_20220802T220636_20220802T220658_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_20220802T222358_20220802T222416_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_20220802T043013_20220802T043206_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_20220802T153056_20220802T153139_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_20220802T170111_20220802T170209_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_20220802T170913_20220802T170920_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_20220802T191402_20220802T191557_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_20220802T203514_20220802T203558_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.

Number of products with errors: 93

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20220802T000247_20220802T000355_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_20220802T004510_20220802T004623_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_20220802T013032_20220802T013208_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_20220802T013953_20220802T014138_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_20220802T022040_20220802T022538_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_20220802T023841_20220802T024237_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_20220802T030950_20220802T031135_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_20220802T031821_20220802T032433_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_20220802T042058_20220802T042120_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_20220802T053654_20220802T053815_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_20220802T053859_20220802T054247_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_20220802T071346_20220802T071940_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_20220802T081751_20220802T081907_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_20220802T085535_20220802T085704_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_20220802T085740_20220802T085915_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_20220802T091107_20220802T091219_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_20220802T095442_20220802T095750_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_20220802T110331_20220802T110656_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_20220802T112738_20220802T112945_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_20220802T113342_20220802T113712_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_20220802T122915_20220802T123004_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_20220802T130820_20220802T131055_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_20220802T131719_20220802T131914_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_20220802T143107_20220802T143212_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_20220802T153754_20220802T153853_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_20220802T154257_20220802T154509_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_20220802T154632_20220802T154858_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_20220802T155051_20220802T155212_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_20220802T155922_20220802T160044_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_20220802T160533_20220802T160841_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_20220802T162548_20220802T162731_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_20220802T170251_20220802T170609_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_20220802T170659_20220802T170818_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_20220802T172211_20220802T172700_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_20220802T180523_20220802T180646_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_20220802T180836_20220802T180934_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_20220802T181410_20220802T181628_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_20220802T184645_20220802T184751_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_20220802T204419_20220802T204528_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_20220802T213318_20220802T213431_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_20220802T215213_20220802T215249_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_20220802T215538_20220802T215722_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_20220802T220636_20220802T220658_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_20220802T220924_20220802T221050_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_20220802T222448_20220802T222512_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_20220802T230236_20220802T230644_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_20220802T233527_20220802T233547_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_20220802T235010_20220802T235054_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_20220802T000355_20220802T000734_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_20220802T004624_20220802T005342_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_20220802T012943_20220802T013031_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_20220802T014139_20220802T014351_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_20220802T014351_20220802T014841_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_20220802T020106_20220802T020312_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_20220802T022539_20220802T023310_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_20220802T025221_20220802T025256_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_20220802T035655_20220802T040012_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_20220802T040424_20220802T041118_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_20220802T042511_20220802T042546_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_20220802T042549_20220802T042957_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_20220802T043013_20220802T043206_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_20220802T054247_20220802T055116_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_20220802T062645_20220802T062837_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_20220802T071941_20220802T072723_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_20220802T080621_20220802T080813_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_20220802T081907_20220802T082237_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_20220802T091045_20220802T091107_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_20220802T093752_20220802T093937_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_20220802T094447_20220802T094754_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_20220802T095751_20220802T100144_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_20220802T105446_20220802T105501_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_20220802T112345_20220802T112737_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_20220802T113713_20220802T114054_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_20220802T130121_20220802T130820_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_20220802T142554_20220802T142807_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_20220802T150547_20220802T150700_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_20220802T153619_20220802T153637_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_20220802T153706_20220802T153753_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_20220802T153857_20220802T154257_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_20220802T154509_20220802T154631_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_20220802T154858_20220802T154955_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_20220802T170212_20220802T170251_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_20220802T172754_20220802T172914_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_20220802T194122_20220802T194456_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_20220802T195613_20220802T195734_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_20220802T202525_20220802T202724_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_20220802T203042_20220802T203226_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_20220802T204528_20220802T204556_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_20220802T212037_20220802T212446_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_20220802T213431_20220802T213702_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_20220802T220744_20220802T220923_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_20220802T230002_20220802T230235_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_20220802T231342_20220802T231723_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: 184

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: 67

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: 138

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	163	163	3	160	0
SIR_NOPR1B	117	117	0	117	0
SIR_NOPN1B	112	112	6	106	0
SIR_NOPM_2	165	165	106	59	0
SIR_NOPR_2	117	117	48	67	2
SIR_NOPN_2	112	112	48	64	0

7.1 QCC Errors

Number of QCC reports with errors: 7

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2	2	1	2	2	1	2					

Test Description Key:		
Abbreviation	**Test name**	**Details**
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7

7.2 QCC Warnings

Number of QCC reports with warnings 1754

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_NOPM1B	160	0	0	0	0	0	0
SIR_NOPM_2	0	0	40	44	1	37	0
SIR_NOPN1B	105	0	0	0	0	0	0
SIR_NOPN_2	0	0	11	30	4	24	30
SIR_NOPR1B	114	0	0	0	0	0	0
SIR_NOPR_2	0	2	34	38	1	36	29

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDF	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	37	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	20	0	0	0	26	0	34
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	22	3	0	45	0	51	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	27	0	0	7	24	0	2
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	25	15	45	53	26
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	44	0	5	56	37	10

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	37	0	2	0	0	0	
SIR_NOPN1B	0	0	0	0	46	0	
SIR_NOPN_2	29	31	15	4	0	0	
SIR_NOPR1B	0	0	0	0	117	5	
SIR_NOPR_2	36	43	1	2	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
RBSZOPOEPFDPLRMNCDF	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
RPEPOPFDPLRMSARNCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINNCDF	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
RSSHAOFDPLRMNCDF	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
RSWHOEPFDPLRMNCDF	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
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports: 0

Image filename paths:

C:\Users\MWilliams\Documents\CRYOSAT_Local\C2QC_Reports\NOPX\

C:\Users\MWilliams\Documents\CRYOSAT_Local\C2QC_Reports\NOPX\2022-08\CS_OFFL_REP_DAYNOX_20220802T000000_20220803T000000\

Filenames used by macro for retrieval:

global	C:\Users\MWilliams\Documents\CRYOSAT_Local\C2QC_Reports\NOPX\2022-08\CS_OFFL_REP_DAYNOX_20220802T000000_20220803T000000\l2_siral_mode_global_plot.PNG
Npole	C:\Users\MWilliams\Documents\CRYOSAT_Local\C2QC_Reports\NOPX\2022-08\CS_OFFL_REP_DAYNOX_20220802T000000_20220803T000000\l2_siral_mode_north_pole_plot.PNG
Spole	C:\Users\MWilliams\Documents\CRYOSAT_Local\C2QC_Reports\NOPX\2022-08\CS_OFFL_REP_DAYNOX_20220802T000000_20220803T000000\l2_siral_mode_south_pole_plot.PNG

C25 Cell to select to paste North Pole Map **O25** Cell to select to paste South Pole Map

C51 Cell to select to paste Global map

5.4

0	1	1	1	1	1	1	1	1	1
	5.4	4.5	, 4.6	and 5	5.6	5.6	5.6	5.7	5.7

1	1	0
7.1	and 7.2	

Version history

Version 3.3 - updated to implement some formatting changes

Version 3.5 - LT -Updated to implement some formatting changes: automatic hiding of empty tables, automatic row height with a minimum row height, automatic hiding of empty rows

			Test	Description
CS_OFFL_SIR_NOPM1B_20220802T	Power scaling error		Attitude Correction Missing	The attitude ha
CS_OFFL_SIR_NOPM1B_20220802T	Power scaling error		Backscatter error	There is an err

			Test	Description
CS_OFFL_SIR_NOPM1B_20220802T	Loss of Echo		Echo Saturation Error	The returned e
CS_OFFL_SIR_NOPM1B_20220802T	Loss of Echo		Loss of Echo	The tracking e
CS_OFFL_SIR_NOPM1B_20220802T	Loss of Echo		Run Time Error	There is a run
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo		Unknown Error	The tracking e
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPN1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPR1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPR1B_20220802T	Loss of Echo			
CS_OFFL_SIR_NOPR1B_20220802T	Loss of Echo			

FOS Predicted Orbit (MPL_ORBPRE) used instead of DORIS Navigator Orbit (DOR_NAV)

	Test	Description
CS_OFFL_SIR_NOPM_2_20220802T172700 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocear	**Altimetric Wind Speed**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T000247 Mean Dynamic Topography (1)	**Dry Tropospheric Correction**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T004510 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Dynamic Atmospheric Correction**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T022040 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Dynamic Atmospheric Correction, Total Geoc**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T031821 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Dynamic Atmospheric Correction, Total Geoc**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T040013 Mean Sea Surface (1), Mean Dynamic Topography (1)	**ECMWF Meteo Corrections**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T044900 Mean Dynamic Topography (1)	**Geocentric Polar Tide**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T053859 Mean Dynamic Topography (1)	**Geoid Height**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T063844 Mean Dynamic Topography (1)	**Geoid Height, Total Geocentric Ocean Tide (F**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T081751 Mean Dynamic Topography (1)	**GIM Ionospheric Correction**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T091736 Mean Dynamic Topography (1)	**GIM Ionospheric Correction, Total Geocentric**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T094754 Mean Dynamic Topography (1)	**Inverse Barometric Correction**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T095442 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Long Period Ocean Tide**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T112738 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Dynamic Topography (1)**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T113342 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Dynamic Topography (1), Total Geocen**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T130820 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Dynamic Topography (1), Total Geocen**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T140330 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocear	**Mean Dynamic Topography (1), Total Geocen**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T144349 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Sea Surface (1)**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T153754 Mean Dynamic Topography (1)	**Mean Sea Surface (1), Mean Dynamic Topogr**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T154257 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Sea Surface (1), Mean Dynamic Topogr**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T163609 Mean Dynamic Topography (1)	**Mean Sea Surface (1), Mean Dynamic Topogr**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T172211 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Sea Surface (1), Mean Dynamic Topogr**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T194624 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocear	**Mean Sea Surface (1), Mean Dynamic Topogr**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T212447 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Sea Surface (1), Total Geocentric Ocea**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T230236 Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Sea Surface (1), Total Geocentric Ocea**	**There is an err**

CS_OFFL_SIR_NOPN_2_20220802T231217	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Mean Sea Surface (1), Total Geocentric Ocea**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T235227	Total Geocentric Ocean Tide (GOT)	**Mean Sea Surface (2)**	**There is an err**
CS_OFFL_SIR_NOPN_2_20220802T235518	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocear	**Mean Sea Surface (2), Total Geocentric Ocea**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T004624	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Non-Equilibrium Long Period Ocean Tide**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T022539	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Ocean Depth/Land Elevation**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T040424	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Ocean Loading Tide (FES)**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T054247	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Ocean Loading Tide (GOT)**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T071941	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Sea State Bias Correction**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T153857	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Solid Earth Tide**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T185717	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Total Geocentric Ocean Tide (FES)**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T202525	Mean Dynamic Topography (1)	**Total Geocentric Ocean Tide (FES), Non-Equi**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T203624	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Total Geocentric Ocean Tide (FES), Non-Equi**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T221449	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Total Geocentric Ocean Tide (GOT)**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T235555	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Total Geocentric Ocean Tide (GOT), Total Ge**	**There is an err**
CS_OFFL_SIR_NOPR_2_20220802T235855	Mean Sea Surface (1), Mean Dynamic Topography (1)	**Total Geocentric Ocean Tide (GOT), Total Ge**	**There is an err**

		Test	**Description**
CS_OFFL_SIR_NOPM_2_20220802T052727	Power scaling error	**Attitude Correction Missing**	**The attitude ha**
CS_OFFL_SIR_NOPM_2_20220802T202906	Power scaling error	**Backscatter Error**	**There is an err**

		Test	**Description**
CS_OFFL_SIR_NOPM_2_20220801T235835	OCOG Altimeter Range Quality, OCOG Backscatter Quality	**Ice Range Averaging Status**	**The Ice Range**
CS_OFFL_SIR_NOPM_2_20220802T000734	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete	**Ocean Altimeter Range Quality**	**The Ocean Alti**
CS_OFFL_SIR_NOPM_2_20220802T005343	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete	**Ocean Altimeter Range Quality, Ocean SSHA**	**The Ocean Alti**
CS_OFFL_SIR_NOPM_2_20220802T011246	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete	**Ocean Altimeter Range, SSHA, SWH and Bac**	**The Ocean Alti**
CS_OFFL_SIR_NOPM_2_20220802T012631	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete	**OCOG Altimeter Range Quality**	**The OCOG Alti**
CS_OFFL_SIR_NOPM_2_20220802T013209	OCOG Altimeter Range Quality, OCOG Backscatter Quality	**OCOG Altimeter Range Quality, OCOG Backs**	**The OCOG Alti**

CS_OFFL_SIR_NOPM_2_20220802T014841, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter **OCOG Altimeter Range Quality, OCOG SSHA The OCOG Alti**

CS_OFFL_SIR_NOPM_2_20220802T020312, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter **OCOG Altimeter Range Quality, OCOG Backs The OCOG Alti**

CS_OFFL_SIR_NOPM_2_20220802T024238, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter **Ocean Altimeter Range Quality, OCOG Altime The Ocean and**

CS_OFFL_SIR_NOPM_2_20220802T025410, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T031135, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T032531, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T034234, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T034819, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T042408, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T043206, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T045123, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T045604, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T050319, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T055815, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T060201, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T063519, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T064220, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T071044, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T073024, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T074111, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T080937, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T082237, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T090804, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T091724, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T093937, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T094920, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T100144, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T102537, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T104644, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T110656, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T111331, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T112945, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T114055, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T114558, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T115355, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T123056, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T123805, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T132019, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T132639, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T134153, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T140451, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T141020, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T141738, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T143213, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T144943, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T145238, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T145937, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T150700, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T151521, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T155655, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T160044, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T160845, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T162732, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T163926, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T173841, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T180647, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T180934, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T181906, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T182236, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T185510, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T191558, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T194852, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T195735, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T203343, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T204720, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T212800, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T213702, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T213957, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T220632, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T221051, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T222512, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T223848, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T230645, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T230810, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T231724, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T232911, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPM_2_20220802T233702, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T041121, OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T063513_ OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T131249_ OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T140826_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T145700_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T195446_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T220636_ OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T222358_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T043013_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T153056_ OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T170111_ OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T170913_ OCOG Altimeter Range Quality, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T191402_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T203514_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality

	Test	Description
CS_OFFL_SIR_NOPN_2_20220802T000247_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG A	**Ice Backscatter Averaging Status**	**The Ice Backsc**
CS_OFFL_SIR_NOPN_2_20220802T004510_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	**Ocean Altimeter Range Quality PLRM**	**The Ocean Alti**
CS_OFFL_SIR_NOPN_2_20220802T013032_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG A	**Ocean altimeter range Quality PLRM, Ocean S**	**The Ocean Alti**
CS_OFFL_SIR_NOPN_2_20220802T013953_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG A	**Ocean Altimeter Range Quality PLRM, OCOG**	**The Ocean Alti**
CS_OFFL_SIR_NOPN_2_20220802T022040_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	**Ocean Altimeter Range, SSHA, SWH and Bac**	**The Ocean Alti**
CS_OFFL_SIR_NOPN_2_20220802T023841_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	**OCOG Altimeter range quality PLRM**	**The OCOG Rar**
CS_OFFL_SIR_NOPN_2_20220802T030950_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG A	**OCOG altimeter range quality PLRM, OCOG b**	**The OCOG Rar**
CS_OFFL_SIR_NOPN_2_20220802T031821_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG A	**OCOG altimeter range Quality, OCOG SSHA (**	**The OCOG Rar**
CS_OFFL_SIR_NOPN_2_20220802T042058_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality		
CS_OFFL_SIR_NOPN_2_20220802T053654_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality		

CS_OFFL_SIR_NOPN_2_20220802T053859_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T071346_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T081751_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T085535_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T085740_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T091107_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T095442_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T110331_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T112738_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T113342_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T122915_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T130820_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T131719_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T143107_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T153754_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T154257_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T154632_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T155051_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T155922_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T160533_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T162548_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T170251_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T170659_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T172211_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T180523_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T180836_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T181410_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T184645_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T204419_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T213318_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T215213_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T215538_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T220636_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T220924_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T222448_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T230236_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPN_2_20220802T233527_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPN_2_20220802T235010_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T000355_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T004624_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T012943_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T014139_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T014351_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T020106_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T022539_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T025221_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T035655_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T040424_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T042511_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T042549_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T043013_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T054247_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T062645 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T071941 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T080621 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T081907 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T091045 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T093752 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T094447 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T095751 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T105446 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T112345 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T113713 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T130121 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T142554 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T150547 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T153619 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T153706 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T153857 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T154509 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T154858 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T170212 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T172754 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T194122 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T195613 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T202525 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T203042 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T204528 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T212037_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T213431_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T220744_ OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality

CS_OFFL_SIR_NOPR_2_20220802T230002_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

CS_OFFL_SIR_NOPR_2_20220802T231342_ Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

LOOKUP Table

Abbreviation	Test	Description
SSRT	SPH_Stop_Record_Time	Stop_Record_T
SSRTL0	SPH_Stop_Record_Time_L0	Stop_Record_T
SAOO	SPHAbsoluteOrbitOrder	The start absolu
SDTO	SPHDownlinkTimeOrder	The downlink ut

LOOKUP Table

Abbreviation	Test	Description
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should r
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should r
MVIONCDF	MissingValueIntOceanNetCDF	The value should r
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarF	The backscatter si
RBSZOPOEPFDPLRMNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarF	The backscatter si
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarF	The backscatter si
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibriu
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness sh
RPEPOPFDPLRMSARNCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNet(	The Peakiness sh
RPEPOPFDPLRMSINNCDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetC	The Peakiness sh
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness sh
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness sh
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness sh
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness sh
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness sh
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface h
RSSHAOFDPLRMNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNet	The sea surface h
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface h
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2	The significant wa
RSWHOEPFDPLRMNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2	The significant wa
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNet(	The significant wa
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence cou
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence count
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20
RIBCONCDF	RangeInverseBarometricCorrectionOceanNetCDF	The Inverse barome
SPTRATSCNSNCDF	SPTrel_Time_Asc_Node_Step_Vz_NetCDF	Rel_Time_Asc_Node_Ste
RLPTONCDF	RangeLongPeriodTideOceanNetCDF	The Long period tid

ıs not been corrected for one or more records

or in the backscatter derivation for one or more records

cho is saturated for one or more records

cho is missing for one or more records

time error for one or more records

cho has returned an unknown error for one or more records

or with the Altimetric Wind Speed for one or more records

or with the Dry Tropospheric correction for one or more records

or with the Dynamic Atmospheric Correction for one or more records

or with the Dynamic Atmospheric Correction and the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

or with the Dynamic Atmospheric Correction, the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

or with the ECMWF Meteo Corrections for one or more records

or with the Geocentric Polar Tide height for one or more records

or with the Geoid height for one or more records

or with the Geoid height, the Total Geocentric Ocean Tide height (solution 2: FES) and Non-equilibrium Long Period Ocean Tide height for one or more records

or with the GIM Ionospheric correction for one or more records

or with the GIM Ionospheric correction, the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

or with the Inverse Barometric correction for one or more records

or with the Long Period Ocean Tide height for one or more records

or with the Mean Dynamic Topography height for one or more records

or with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

or with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records

or 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

or with the MSS height (solution 1) for one or more records

or with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

or with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

or 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

or with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) and the Non-Equilibrium Long Period Ocean Tide for one or more records

or with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records

or with the MSS height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

or with the MSS height (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

or with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

or with the MSS height (solution 2) for one or more records

or with the MSS height (solution 2), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

or with the Non-equilibrium Long Period Ocean Tide height for one or more records

or with the Ocean Depth or Land Elevation height for one or more records

or with the Ocean Loading Tide height (solution 2: FES) for one or more records

or with the Ocean Loading Tide height (solution 1: GOT) for one or more records

or with the SSB correction for one or more records

or with the Solid Earth Tide height for one or more records

or with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

or with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

or with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

or with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

or with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) for one or more records

or with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

is not been corrected for one or more records

or in the backscatter derivation for one or more records

Averaging Status Flag has been set for one or more records

imeter Range Quality Flag has been set for one or more records

imeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records

imeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

imeter Range Quality Flag has been set for one or more records

imeter Range and Backscatter Quality Flags have been set for one or more records

imeter Range, SSHA, and Backscatter Quality Flags have been set for one or more records

imeter Range and Backscatter Quality Flags have been set for one or more records

d OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records

catter Averaging Status Flag has been set for one or more records

meter Range Quality Flag has been set for one or more records

meter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records

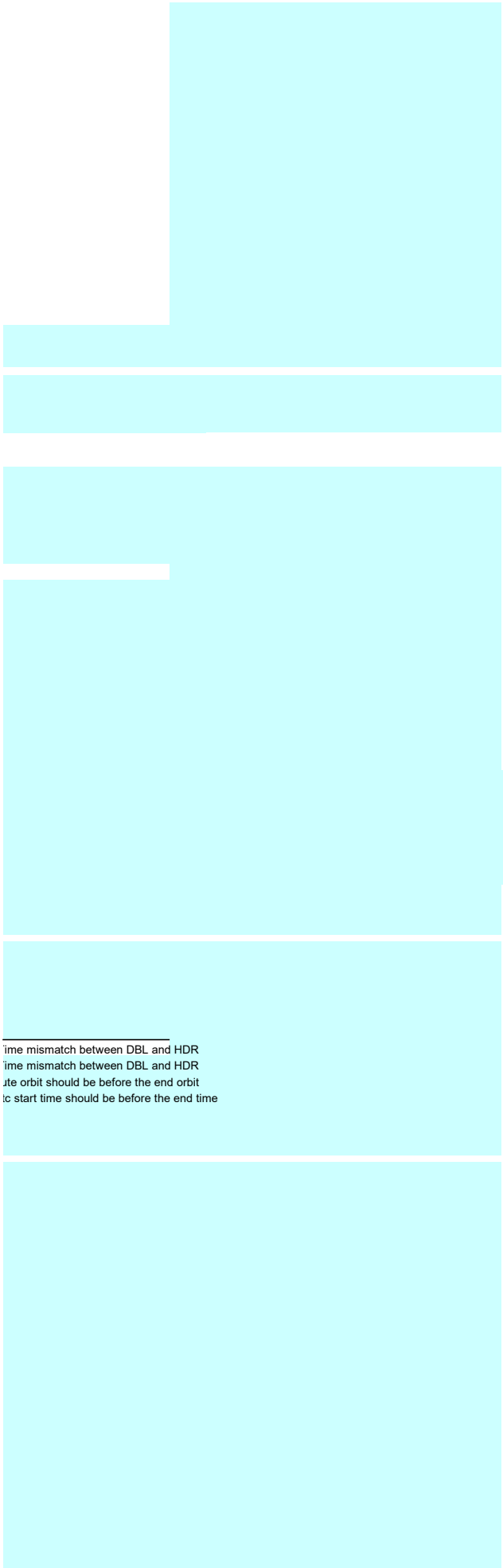
meter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records

meter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

nge Quality Flag has been set for one or more records

nge and Backscatter Quality Flags have been set for one or more records

nge, SSHA, and Backscatter Quality Flags have been set for one or more records


ime mismatch between DBL and HDR
ime mismatch between DBL and HDR
te orbit should be before the end orbit
c start time should be before the end time

should be one higher with regard to the previous burst counter

not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees

not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees

not be a 'missing value' for surface type 0 only

igma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

igma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

igma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

m long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean

ould be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ould be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

s correction should be between -500mm and 0mm (or missing) for surface type = ocean

eight anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean

eight anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean

eight anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean

ve height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ve height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

ve height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

a 20 Hz sample should be the same or 1 higher than its previous sample

unter should be modulo 4 higher with regard to the previous sequence counter

er should be one higher (modulo 16384) with regard to the previous sequence counter

Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)

tric correction should be between -2000mm and 2000mm (or missing) for surface type = ocean - NetCDF

e mismatch

e height should be between -50mm and 50mm (or missing) for surface type = ocean - NetCDF