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Public Information Statement 23-XX
National Weather Service Headquarters Silver Spring MD
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From: Bruce Entwistle, Chief
 Aviation and Space Weather Services Branch

Subject: Soliciting Comments through May 4, 2023 on the Experimental
Deployment of the US-Canada 1D Geoelectric Model

Through May 4, 2023, the National Weather Service (NWS) Space Weather
Prediction Center (SWPC) in Boulder, CO, is soliciting comments on the
Experimental Deployment of the US-Canada 1D Geoelectric Model, located at:

<https://www.swpc.noaa.gov/products/experimental/us-canada-1d-geoelectric-field-1-minute>

The current operational Regional Geoelectric 1D Model is located at:

<https://www.swpc.noaa.gov/products/geoelectric-field-1-minute>

The US-Canada 1D Geoelectric Model is a joint product between the National Oceanic & Atmospheric Administration (NOAA), the U.S. Geological Survey (USGS) and Natural Resources Canada/Canadian Hazards Information Service (NRCan/CHIS). This upgraded product expands coverage into Canada. Potentially hazardous geoelectric fields can be induced during geomagnetic storms. New 1D conductivity models provided by NRCan/CHIS for Canada are incorporated into the model. The model grid resolution will be increased to one-half (1/2) degree in latitude and longitude, resulting in 7,063 grid points of coverage. The model grid has a northern latitude limit of 60. In contrast, the current regional 1D model has resolution of two (2) degrees over the continental United States and is made up of 283 grid points.

SWPC is responsible for providing and maintaining this experimental model on their website: <https://www.swpc.noaa.gov/products/experimental/us-canada-1d-geoelectric-field-1-minute>.

A detailed description of the U.S.-Canada 1D Geoelectric Field Model can be found at the following link:

[https://www.weather.gov/media/notification/PDD Experimental Deployment US-Canada 1D Geoelectric Model.pdf](https://www.weather.gov/media/notification/PDD%20Experimental%20Deployment%20US-Canada%201D%20Geoelectric%20Model.pdf)

Input is being sought on the U.S.-Canada 1D Geoelectric Model through May 4, 2023. Comments can be sent via email to:

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and

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National Public Information Statements are online at:

<https://www.weather.gov/notification/>

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