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Service Change Notice 23-68
National Weather Service Headquarters Silver Spring MD
1230 PM EDT Wed Jun 21 2023

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From: Bruce Entwistle, Chief
 Aviation and Space Weather Services Branch

Subject: Operational Implementation of the US-Canada 1D Geoelectric Model
on June 21, 2023

On June 21, 2023, the National Weather Service (NWS) Space Weather
Prediction Center (SWPC) in Boulder, CO will implement the operational
version of the US-Canada 1D Geoelectric Model, located at:

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

The new service will supersede the existing Regional Geoelectric 1D Model
over the contiguous U.S. (CONUS), which will be discontinued on June 21,
2023, but currently found 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 is 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.

SWPC is responsible for providing and maintaining this model on their
website:

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

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

https://nsdesk.servicenowservices.com/api/g_noa/nwspc/res2/954f71651b63a51021dd20eae54bcbb2

If you have any questions, please contact:

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National Service Change Notices are online at:

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

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