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PNSWSH

Service Change Notice 22-29  
National Weather Service Headquarters Silver Spring MD  
530 PM EDT Thu Mar 10 2022

To:           Subscribers:  
              -NOAA Weather Wire Service  
              -Emergency Managers Weather Information Network  
              -NOAAPort  
              Other NWS Partners, Users and Employees

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

Subject: Change in Data Coverage for the Regional Geoelectric Model:  
Effective March 23, 2022

Effective March 23, 2022, at 1700 Coordinated Universal Time (UTC), the National Weather Service will deploy an upgrade to the joint NOAA-U.S. Geological Survey (USGS) Geoelectric Field Model (Empirical EMTF - 3D version). This upgrade includes the following:

- EMTF (Electromagnetic Transfer Function) survey metadata for the southwestern regions of the contiguous United States are being added which allow the model to generate output data for those regions.

The Geoelectric Field 1-Minute model is run continuously, and data files are available at one minute intervals on the Space Weather Prediction Center (SWPC) website in the following locations:

<https://www.swpc.noaa.gov/products/geoelectric-field-1-minute-empirical-entf-3d-model>

<https://services.swpc.noaa.gov/json/lists/rgeojson/InterMagEarthScope/>

Filenames are of the form:

YYYYMMDDTHMMSS-nn-Efield-empirical-EMTF.YYYY.MM-0.5x0.5.json

Where YYYY is year, MM is month, DD is day, HH is hour, MM is minute, SS is second, nn is number of geomagnetic observatories input to the product, EMTF.YYYY.MM is the year and month of the download of EMTF metadata used by the model.

More information about the upgrade to the Empirical 3D Geoelectric model at SWPC can be found in the news release linked below:

<https://www.swpc.noaa.gov/news/geoelectric-field-map-update-3d-empirical-conductivity-model>

For any comments/feedback on the model upgrade at SWPC, please contact:

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National Service Change Notices are online at:

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

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