

## **Biographical Sketch**

### **Daniel Ray Weimer, Ph.D.**

Dr. Weimer's PhD thesis work on simultaneous electric field measurements on both Dynamics Explorer satellites has been highly cited, and his empirical models of ionospheric electric potentials and field-aligned current are very well known in the space physics community. He had participated in the development of the Integrated Space Weather Prediction Model (ISM), primarily as the developer of all diagnostic visualization programs. He is an expert in using IDL for both innovative data analysis techniques, empirical model development, and graphics. As the PI in the ACE Guest Investigator Program, Dr. Weimer had developed an innovative technique for measuring IMF propagation delay times between multiple satellites.

Dr. Weimer is now Research Professor of Space Science with the Virginia Tech. Center for Space Science and Engineering Research, and resident at the National Institute of Aerospace in Hampton, VA.

Current research involves an empirical model for predicting geomagnetic variations at the surface of the Earth, and developing a technique to predict changes in the temperature and number density of the thermosphere resulting from auroral heating, to better predict satellite drag perturbations in low Earth orbit.

#### **List of Publication Citations**

<http://scholar.google.com/citations?user=tDzPLtQAAAAJ>

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- Weimer, D. R., C. K. Goertz, D. A. Gurnett, N. C. Maynard, and J. L. Burch, Auroral zone electric fields from DE 1 and 2 at magnetic conjunctions, *J. Geophys. Res.*, *90*, 7479, 1985.
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