

NOAA Space Weather Operations: Current operational models and future needs for space weather modeling

Viereck, Rodney (1), rodney.viereck@noaa.gov; and Terry Onsager (1).

(1) NOAA Space Weather Prediction Center, Boulder, CO, USA

The NOAA Space Weather Prediction Center has the mission of helping to protect society from the impacts of space weather on technological systems. This involves both specification and forecasting of a number of environmental parameters and span the space from Sun to Earth. The timescales of interest cover the full range from seconds to decades. In this presentation, we will review the specification and forecast models currently in operations. We will discuss the models that are under development and in prototype or test-mode at SWPC. And finally, we will highlight some of the current un-met customer needs and how these translate into modeling challenges that operational space weather forecasting presents to the research community.