

**SOLARIS/HEPPA poster cluster: EPP effects in WACCM4 with a coupled ocean model**

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The Whole Atmosphere Community Climate Model version 4 (WACCM4) shows that energetic particle precipitation (EPP) has negligible effects in the northern hemisphere, but causes up to a ~10% increase in ozone loss in the southern hemisphere stratosphere. Results in the troposphere were not interpreted since specified sea surface temperatures constrained the lower boundary of the model. More recent simulations couple WACCM4 to the Parallel Ocean Program version 2 (POP2) as part of the Community Earth System Model (CESM). Results from these simulations are examined to determine the effects of EPP on the entire atmosphere.