



Numerical Modeling of Ionospheric Plasma and Its Effects on the Magnetosphere

Daniel Welling

University of Michigan

Over the past decade, there has been an explosion in numerical studies of the Earth's magnetosphere that include light and heavy ions from the ionosphere. These simulations have shown that ionospheric plasmas can affect global conditions in the plasma sheet, ring current, and even dayside reconnection. These simulations have now begun to include the plasmasphere, whose dayside plumes mass load the magnetopause and may affect coupling between the solar wind and magnetosphere. This talk reviews this topic and introduces work being done at the University of Michigan and Boston University to further explore possible links between ionospheric plasma and global dynamics.



4:00pm in CAS 502. Refreshments served at 3:45pm in CAS 500.

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Center for Space Physics
725 Commonwealth Avenue
617-353-5990
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Next Week
Lara Waldrop
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