Kristine Sigsbee

ksigsbee@pop600.gsfc.nasa.gov

Education

- Ph.D. Physics, University of Minnesota, 2000
  Thesis Adviser: Cynthia Cattell
  Thesis Title: FAST, Geotail and Polar Correlative Studies of Low-Frequency Waves and Magnetosphere-Ionosphere Coupling
- M.S. Physics, University of Minnesota, 1995
  Thesis Adviser: Robert Gehrz
  Thesis Title: Observing Lunar Impacts
- B.S. Physics, Summa Cum Laude, Mathematics Minor, University of Minnesota, 1992

Research Positions

- National Research Council Post-doctoral Research Associate
  NASA Goddard Space Flight Center, 2000-2002
- Post-doctoral Researcher
  University of Iowa, Starting June 2002

Research Interests

- Substorms, magnetic field dipolarizations and earthward flows
- Low-frequency waves in the magnetotail
- The relationship between Pi2 pulsations and earthward flows
- Alfvèn waves in the auroral zone and their relation to magnetosphere ionosphere coupling
- Wavelet analysis

Selected Publications

Sigsbee, K., C. A. Cattell, F. Mozer, K. Tsuruda, T. Yamamoto, S. Kokubun, D. Fairfield, Geotail observations of low-frequency waves and earthward flows during substorm onsets in the near magnetotail, *J. Geophys. Res., in press,* accepted September 2001.

Sigsbee, K., C. A. Cattell, F. S. Mozer, K. Tsuruda, and S. Kokubun, Geotail observations of low-frequency waves from 0.001 to 16 Hz during the November 24, 1996, Geospace Environment Modeling substorm challenge event, *J. Geophys. Res., 106,* 435, 2001.

Sigsbee, K., C. A. Cattell, R. L. Lysak, C. W. Carlson, R. E. Ergun, J. P. McFadden, F. Mozer, R. C. Elphic, R. J. Strangeway, K. Tsuruda, T. Yamamoto, S. Kokubun, D. Fairfield, R. Pfaff, G. Parks, M. Brittnacher, FAST-Geotail correlative studies of magnetosphere ionosphere coupling in the nightside magnetosphere, *Geophys. Res. Lett.*, 25, 2077, 1998.