

PERSPECTIVES ON MAGNETOSPHERIC IMAGERY

J. L. Burch

Southwest Research Institute

The Imager for Magnetopause-to-Aurora Global Exploration (IMAGE) mission performs multi-spectral imaging investigations of the inner magnetosphere. IMAGE uses unique ultraviolet, neutral atom, and radio plasma imaging techniques, which have provided new results on substorm and magnetic storm dynamics of the magnetosphere. IMAGE also provides guidance for future magnetospheric and heliospheric imaging missions. This paper will review the imaging techniques and results from the IMAGE mission and will discuss new techniques for future missions.