

Abstract

The NASA Propagation Experimenters (NAPEX) meeting is convened each year to discuss studies supported by the NASA Propagation Program. Representatives from the satellite communications industry, academia, and government who have an interest in space-ground radio wave propagation are invited to NAPEX meetings for discussions and exchange of information. The reports delivered at this meeting by program managers and investigators present our recent activities and future plans. This forum provides an opportunity for peer discussion of work in progress, timely dissemination of propagation results, and close interaction with the U.S. space community.

NAPEX XXIII, which convened on June 2 and 3, 1999, consisted of an introduction and three sessions. Session I, entitled "ACTS Propagation Study Results and Outcomes," covered the results of five years of Ka-band radio wave propagation experiments at seven sites in North America. Session II, "Ka-Band Propagation Studies and Models," provided the latest developments in modeling and analysis of experimental results about radio wave propagation phenomena for design of Ka-band satellite communication systems. Session III, "Propagation Research Topics," covered a diverse range of propagation topics of interest to the space community, including overviews of handbooks and databases on radio wave propagation.