

MARS: RADIO SCIENCE FIRST RESULTS. M. Pätzold, S. Asmar, J. P. Barriot, V. Dehant, B. Hausler, D. Hinson, R. Simpson, and G. Tyler.

Mars Express conducted its first bistatic radar observation on 21 January. The spacecraft antenna was pointed toward the surface of Mars so that the specular point (10N, 186E) would be centered in the beam at 05:50 Earth receive time. Echoes were received in Xband (3.6 cm wavelength) channels set up for right- (RCP) and left-circular (LCP) polarizations. Transient echoes were received in at least one S-band (13 cm) polarization. Angle of incidence was 68 degrees. Results of the analysis of these data will be presented. No other radio science data have been collected as of the time this abstract was written; but additional observations are scheduled before the LPSC meeting.