



Plate 1. Martian surface spectra acquired by TES [Bandfield *et al.*, 2000a] overlaid on the spectral field classification diagram. Fields are defined by spectra of terrestrial rocks at 10 cm^{-1} sampling. Basaltic rocks fall within the gray shaded zone, and andesitic rocks lie between the black lines (the dacite fields in Figure 13 of paper 1 are not shown for clarity). Martian spectra are contrast enhanced for visual comparison only (see text for discussion).