

## Possible evidence for low-altitude dust in LADEE-UVS data

M.M. Hedman (U. Idaho), D. Wooden, A. Colaprete, A. Cook (NASA Ames)

The UVS instrument onboard the LADEE spacecraft performed several different types of activities that were designed to search for dust grains lofted above the Moon's surface. We will report on recent analyses of two different types of observations containing signals that could be due to these dust grains. UVS observations of the Sun setting behind the Moon reveal that these eclipses occur at slightly different times at different wavelengths, which may be consistent with absorption/scattering by dust grains just above the Moon's limb. Also, observations of the Moon's limb at very high phase angles show broad-band brightness fluctuations that may be light scattered from low-altitude dust. This dust appears to be confined to within a kilometer of the Moon's surface, and so may be a distinct dust population from the more tenuous and diffuse cloud observed by the LDEX instrument.