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Hi -

I am seeking approval for my abstract for the Fall 2003 AGU meeting. I will submit this abstract on September 3rd. I am including the abstract below and attaching forms 1330 and 2785.

thanks,

Annmarie Eldering
x44941

Fall 2003 AGU Abstract

Characterization of Aerosol and PSC Sensitivity of ACE Solar Occultation Measurements

Annmarie Eldering, Helen M. Steele

The ACE Fourier Transform Interferometer was launched on August 12, 2003 to make solar occultation measurements. This high spectral resolution (0.02 cm-1) instrument has broad spectral coverage (750-4100 cm-1). In the work presented here, we will discuss the potential of ACE measurements for characterizing stratospheric sulfate aerosol (SSA) and polar stratospheric clouds. Previously reported studies showed that the high spectral resolution solar occultation measurements of ATMOS, which have limited spectral coverage, can be used to characterize SSA composition under high and moderate loadings. It has also been shown that MkIV airplane based measurements, with a spectral range similar to ACE, have use in characterizing aerosol size. The work presented here is a sensitivity study of ACE measurements to characterize aerosol size and composition under current aerosol loading conditions and higher aerosol loadings.

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