Fred Prata Numbers

Ash Type: Andesite

Mean particle radius: 3 - 5um

Blue Red Near IR Green

Wavelength (um) (0.45-0.49) (0.59-0.69) (0.84-0.88) (0.545-0.565)

Single-scatter albedo 0.7870 0.7486 0.7240 0.7665

Asymmetry factor 0.4431 0.4340 0.4240 0.4365

Extinction Coefficient 2.0873 2.0878 2.0875 2.0874

(num x 10-4/m)

Mike Pavalonis numbers:

wavelength 0.47 0.65 0.86 0.55

single scatter albedo 0.898 0.906 0.910 0.901

asymmetry parameter 0.814 0.797 0.780 0.809

extinction (num x10-4/m) 2.20 2.25 2.30 2.21

\*\*\*Interestingly, some Qext numbers that had been worked out specifically for the Iceland volcano were about one order of magnitude less than these (10-5). That could have been a consequence of knowing (nearly) the exact composition of the ash. However, without ever really knowing this (the exact composition of a particular eruption) I think that the above numbers will work well overall (as a starting point anyway).