AQMEII model profiles at AERONET stations over North America in 2010 (b) Height (m a.g.l.) (a) 7.5 -7.5 5.0 -5.0 -2.5 -2.5 -0.0-0.0 -0.0 0.6 0.25 0.50 0.2 0.00 0.75 1.00 1.25 0.4 Secondary inorganic (µg m<sup>-3</sup>) Black carbon (µg m<sup>-3</sup>) (c) (d) Height (m a.g.l.) 7.5 -7.5 -5.0 -5.0 -2.5 -2.5 -0.0 -0.0 -0.00 0.25 0.50 0.75 1.00 0.05 0.10 0.15 0.20 0.00 Secondary organic (µg m<sup>-3</sup>) Primary organic (µg m<sup>-3</sup>) Height (m a.g.l.) 2 5.0 2 7.5 -5.0 -2.5 -(e) (f) 0.0 -15 12 0.850 0.875 0.825 0.800 0.775 rBC = ([SIA]+[OC]) / [BC]Single scattering albedo Height (m a.g.l.) 7.5 -**MODEL** 5.0 -5.0 -→ DK1 → US3 2.5 **-**2.5 -(g) 0.0 -0.0 -(h) 1.75 2.00 2.25 1.50 2.50 0.35 0.40 BC absorption enhancement Core mass fraction