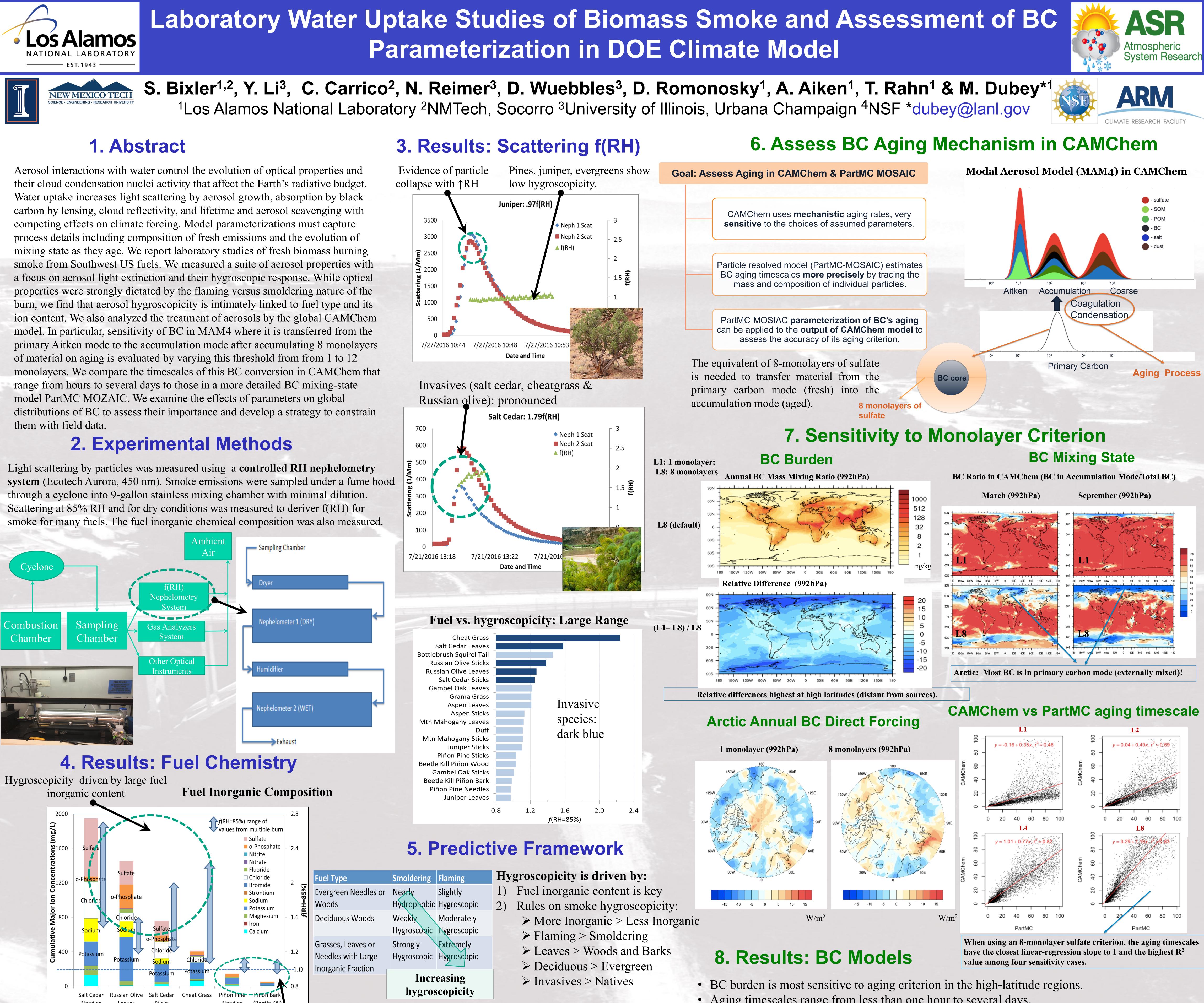
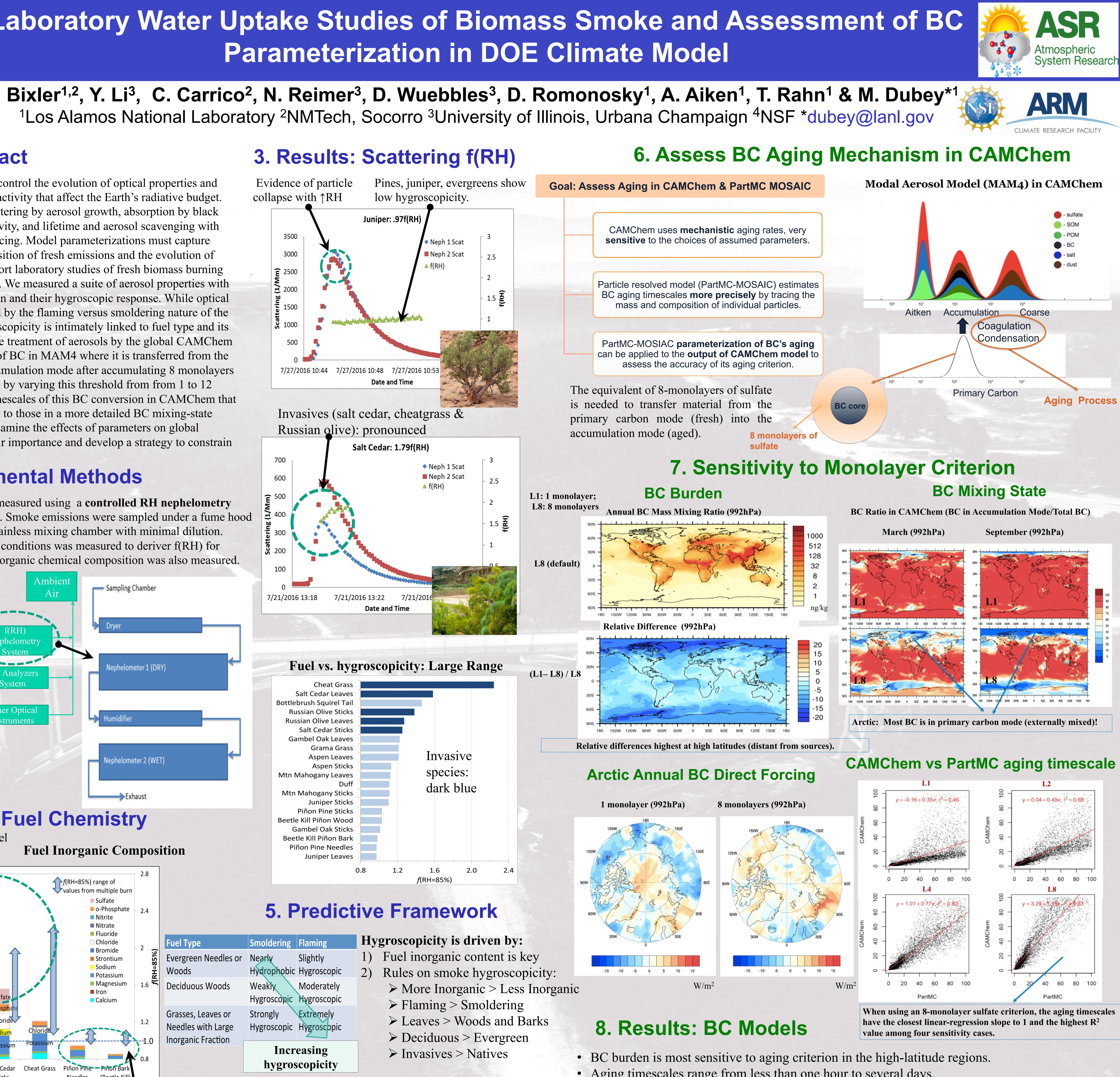
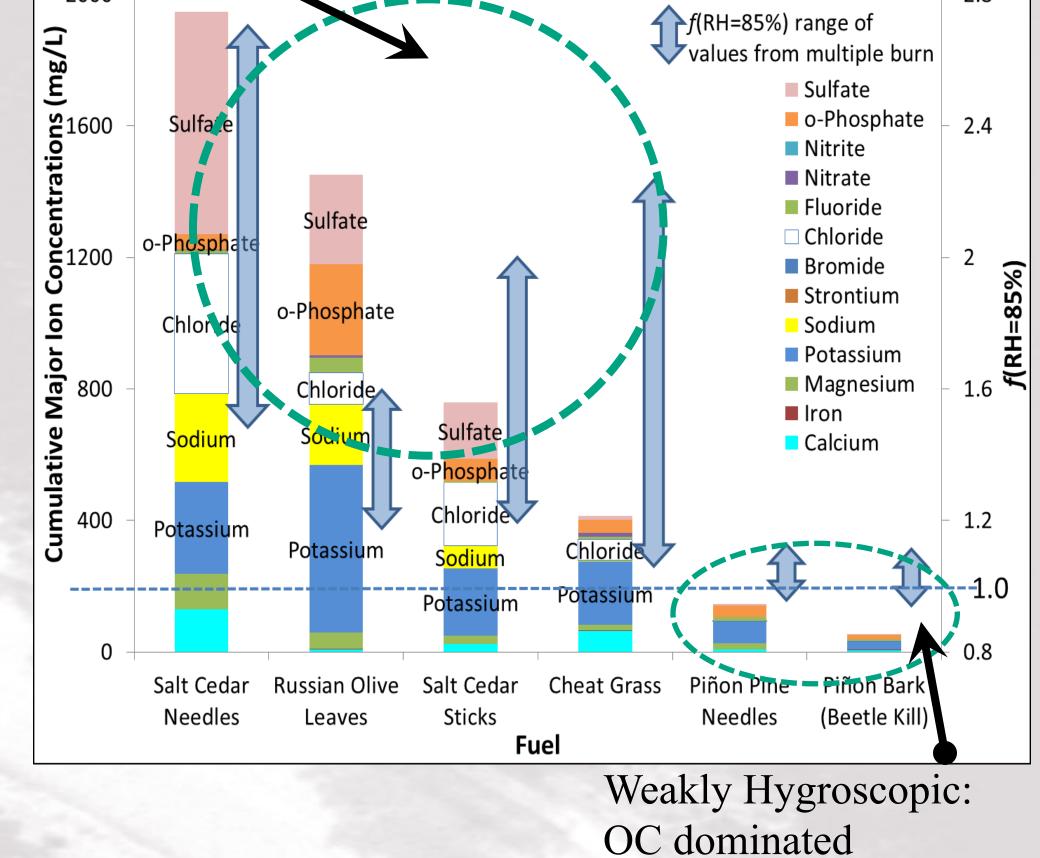


Parameterization in DOE Climate Model







Fuel Type	Smoldering	Flaming	Hygros
Evergreen Needles or Woods	Nearly Hydrophobic	Slightly Hygroscopic	 Fue Rul
Deciduous Woods	Weakly Hygroscopic	Moderately Hygroscopic	
Grasses, Leaves or Needles with Large Inorganic Fraction	Strongly Hygroscopic	Extremely Hygroscopic	
	Increasing hygroscopicity		

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• Aging timescales range from less than one hour to several days. Condensation of SOA and sulfate plays a dominating role in BC aging, compared to coagulation. MAM4 aging timescales are broadly consistent with PartMC-MOSAIC aging timescales.