

Condensation scheme	Convective parameterization	Aerosol scheme	Radiative transfer	Boundary layer parameterization	Surface processes	Gas-phase mechanism	Gas-phase deposition
Two-moment cloud microphysics (Milbrandt and Yau, 2005a, b)	Kain and Fritsch (1990) and Kain (2004)	Canadian Aerosol Module (CAM); sectional 2 or 12 bins (Gong et al., 2003a, b)	Li and Barker (2005)	Moist-TKE closure scheme (Mailhot and Benoit, 1982)	ISBA2 (Belair et al., 2003a, b)	42-species ADOM-II mechanism (Lurmann et al., 1986)	Jarvis (1976), Wesely (1989), Zhang et al. (2002, 2003)