

Xiaoyan Ma

University of Victoria, Canadian centre for climate modeling and analysis, unive  
xiaoyan.ma@ec.gc.ca

Education:

\* 1989 B.E. (Remote sensing), Wuhan University, Wuhan, China \* 1998  
M.Sc (Climatology), Lanzhou Institute of Plateau atmospheric physics, Chi-  
nese Academy of Sciences, Lanzhou, China \* 2002 Ph.D (Atmospheric  
Physics), Institute of atmospheric physics, Chinese Academy of Sciences,  
Beijing, China

Research Interests \* Aerosol parameterizations \* Aerosol-cloud-climate  
interaction

Publications

\* Ma, X., K. von Salzen and J. Li, 2007: Modelling sea salt aerosol and  
its direct and indirect effects on climate, *J. Geophys. Res.* Submitted \*  
Li, J., X. Ma, K. von Salzen, and S. Dobbie, 2007, Parameterization of sea  
salt optical properties and related radiative forcing study, *J. Atmos. Sci.*  
Submitted \* Ma, X., and K. von Salzen, 2006: The dynamics of the sul-  
phate size distribution on a global scale, *J. Geophys. Res.*, 111, D08206,  
10.1029/2005JD006620. (PDF) \* Ma, X. Y., Y.F. Guo, G.Y. Shi and Y.Q.  
Yu, 2004: Numerical simulation of global temperature change in the 20th  
century with the IAP/LASG GOALS model, *Adv. Atmos. Sci.*, 21(2), 227-  
235 (PDF) \* Ma, X.Y., G.Y. Shi, Y.F. Guo and X.H. Wang, 2005: Radiative  
forcing of GHGs and sulphate aerosols, *Acta Meteo. Sinica*, 63(1), 41-48. \*  
Ma, X.Y., G.Y. Shi, Y.F. Guo and L.S. Zhang, 2004: Simulation of radiative  
forcing induced by sulphate aerosols, *Climatic and Environment Research*,  
28(4), 452-461 \* Liu, Y.X., X.Y. Ma and Y.F. Guo, 2004: Impact of the  
external forcing on Decadal Variability of Atmosphere Circulation in North-  
ern Hemisphere Winter. *Plateau Meteorology*, 23(4), 458-464 \* Wang X.

H., G.Y. Shi and X.Y. Ma, 2003: Climatic effects of sulfate aerosol in East Asia. Chinese Atmosphere Sciences, 26(6), 751-760 \* Ma, X.Y., and G.L. Ji, 2000: On the absorption of solar radiation by clouds over China, Chinese Atmosphere Sciences, 24(4), 527-540 \* Ma, X.Y., and G.L. Ji, 2000: Analysis cloud radiative forcing in China using ERBE data, Plateau Meteorology, 19(2), 150-158.

I am working as a postdoc. I want to attend this summer school because I think it is helpful to know more about the theory and results about convective cloud and precipitation in my research, i.e. aerosol indirect effect (aerosol-cloud interaction).

Supervisor Knut von Salzen email: knut.vonsalzen@ec.gc.ca