Supplementary Materials

**Figure S1.** Average potential surface conductance values ($g_0$) derived from tower measurements versus corresponding NDVI values from the AVHRR GIMMS data set for evergreen broadleaf forest (EBF), mixed forest (MF), Woody savanna (WSV), and cropland (CRP) vegetation types [1]. Gray areas correspond to the 99% posterior limits of the fitting model uncertainty derived from an adaptive MCMC method [2]. Blue areas correspond to the NDVI range in Poyang Lake Basin.

**Figure S2.** Range of potential surface conductance values ($g_0$) for evergreen broadleaf forest (EBF), mixed forest (MF), Woody savanna (WSV), and cropland (CRP) vegetation types in Poyang Lake Basin.
Reference
