Figure 1: SO$_2$ annual mean emission rate over the 12km x 12km CONUS domain for (a) 1995 and (b) 2010 (unit: moles s$^{-1}$ grid).
Figure 2: Annual mean of SO$_2$ (first row) and NO$_x$ (second row) emission for each site (colored line) and the network mean (solid black line) together with the LSF (dash black line) to the network mean. The best-fit equation and coefficient of determination ($R^2$) are given at right in each panel. The left column represent eastern U.S. while the right column represent western U.S.
Figure 5: Annual mean of AOD from SURFRAD (first row) and PM$_{2.5}$ from IMPROVE (second row) for each site (colored line) and the network mean (solid black line) together with the LSF (dash black line) to the network mean. The best-fit equation and coefficient of determination ($R^2$) are given at right in each panel. The left column represent eastern U.S. while the right column represent western U.S.
Figure 6: Annual mean of \( \text{SO}_4 \) (first row) and \( \text{NO}_3 \) (second row) from IMPROVE for each site (colored line) and the network mean (solid black line) together with the LSF (dash black line) to the network mean. The best-fit equation and coefficient of determination (\( R^2 \)) are given at right in each panel. The left column represent eastern U.S. while the right column represent western U.S.
Figure 7: Annual mean of SO\textsubscript{4} (first row), SO\textsubscript{2} (second row) and NO\textsubscript{3} (third row) from CASTNET for each site (colored line) and the network mean (solid black line) together with the LSF (dash black line) to the network mean. The best-fit equation and coefficient of determination (R\textsuperscript{2}) are given at right in each panel. The left column represent eastern U.S. while the right column represent western U.S.
Figure 8: Annual mean of all-sky downwelling SW (first row), direct SW (second row), diffuse SW (third row) and cloud cover fraction (fourth row) from SURFRAD for each site (colored line) and the network mean (solid black line) together with the LSF (dash black line) to the network mean. The best-fit equation and coefficient of determination ($R^2$) are given at right in each panel. The left column represent eastern U.S. while the right column represent western U.S.
Figure 9: Annual mean of clear-sky downwelling SW (first row), direct SW (second row) and diffuse SW (third row) from SURFRAD for each site (colored line) and the network mean (solid black line) together with the LSF (dash black line) to the network mean. The best-fit equation and coefficient of determination ($R^2$) are given at right in each panel. The left column represent eastern U.S. while the right column represent western U.S.