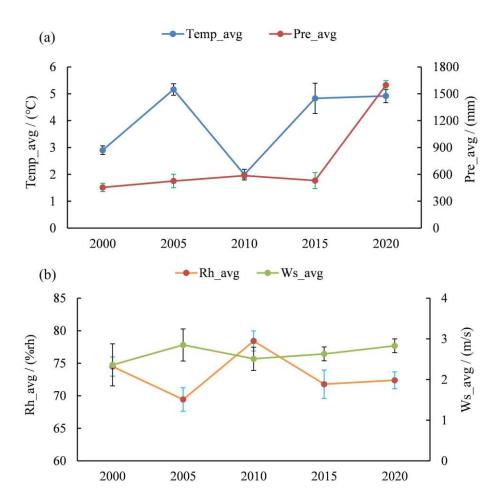
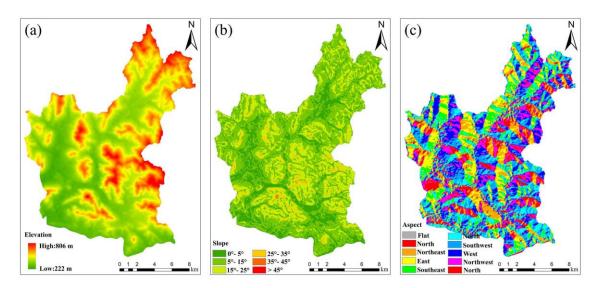


**Figure S1.** Changes of normalized difference vegetation index (NDVI) in Maoershan from 2000 to 2020. The vertical line at each point represents the standard error bar.



**Figure S2.** Changes of climate factors in Maoer Mountain from 2000 to 2020: (a) annual mean temperature (Temp\_avg) and annual precipitation (Pre\_avg), (b) annual mean relative humidity (Rh\_avg) and annual mean wind speed (Ws\_avg). The vertical line at each point represents the standard error bar.



**Figure S3.** Topographic factors distribution map of Maoershan: (a) elevation, (b) slope, and (c) aspect.