**Metadata**

**Native diversity contributes to composition heterogeneity of exotic floras**

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| city | The cities where the sample area is located. |
| community | Community number.We randomly selected three 15×15 m communities in each city. |
| plot | Plot number.We set up nine 1×1 m plots in each community. |
| latitude | Latitude of sample area. |
| longitude | Longitude of sample area. |
| species | Species name. We recorded all the species in each plot. |
| native\_status | The origin of species.We identified exotic species and native species based on the Invasive Alien Species of China (http://www.iplant.cn/ias/protlist) and the Scientific Database of China Plant Species (http://db.kib.ac.cn/). |
| abundance | Abundance of each species in each plot. |
| AMP | Annual precipitation of the city where the sample area is distributed.The data were downloaded from the WorldClim data website (https://www.worldclim.org/data/index.html). |
| AMT | Mean annual temperature of the city where the sample area is distributed.The data were downloaded from the WorldClim data website (https://www.worldclim.org/data/index.html). |
| maxT | Monthly maximum temperature of the city where the sample areas is distributed.The data were downloaded from the WorldClim data website (https://www.worldclim.org/data/index.html). |
| minT | Monthly minimum temperature of the city where the quadrat is distributed.The data were downloaded from the WorldClim data website (https://www.worldclim.org/data/index.html). |
| soil\_pH | Soil pH value in each plot. |
| soil\_C | Soil carbon content in each plot (g/kg). |
| soil\_N | Soil nitrogen content in each plot (g/kg). |
| soil\_P | Soil available phosphorus content in each plot (g/kg). |
| GDP | Gross domestic product of the city where the quadrat is distributed (hundred million).The data were downloaded from the National Bureau of Statistics (http://www.stats.gov.cn/). |
| HPD | Human population density of the city where the quadrat is distributed (people per square kilometer).The data were downloaded from the National Bureau of Statistics (http://www.stats.gov.cn/). |
| RD | Road density of the city where the quadrat is distributed (m2 / km2).The data were downloaded from the National Bureau of Statistics (http://www.stats.gov.cn/). |