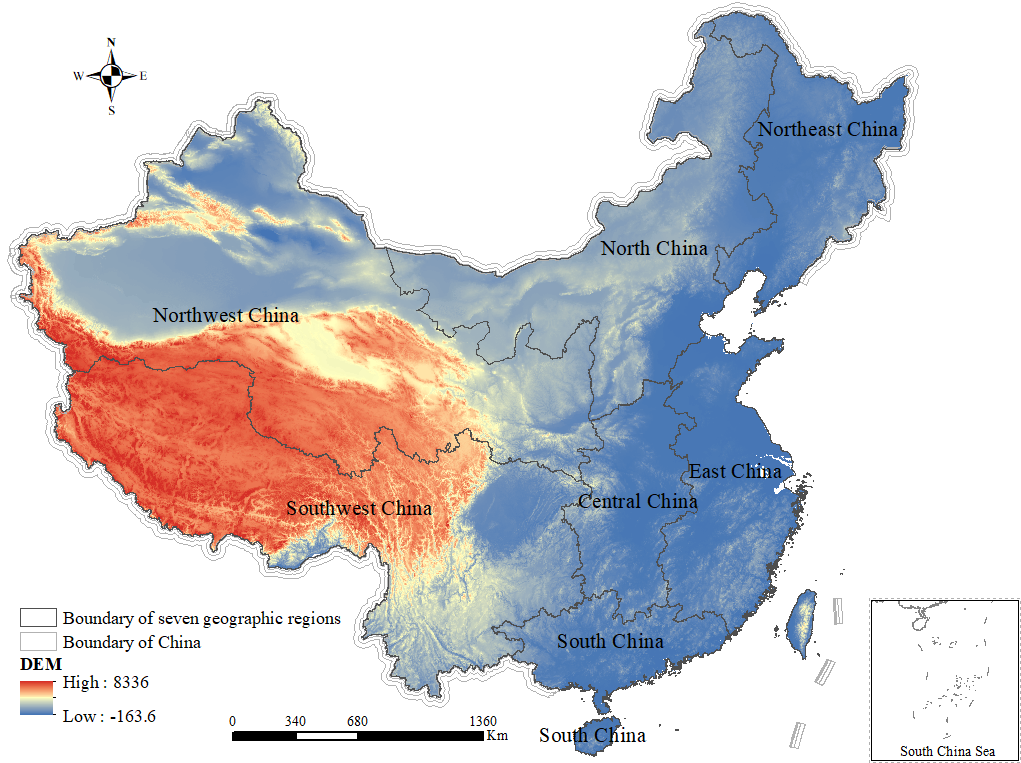
**Appendix materials S**

**Nonlinear characteristics of vegetation ecosystem and its response to climate and ecological restoration in China**

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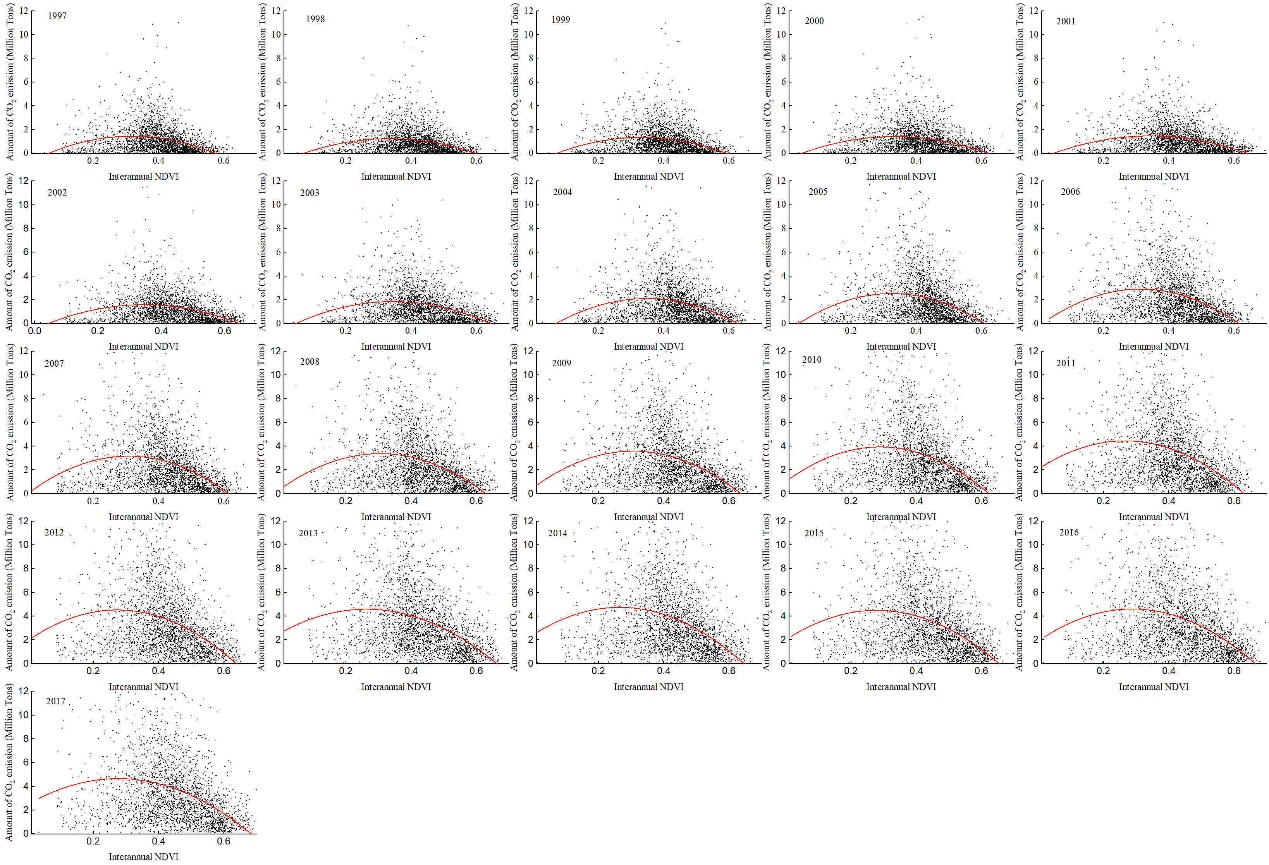
**\*** Corresponding author (Li Peng): pengli@imde.ac.cn



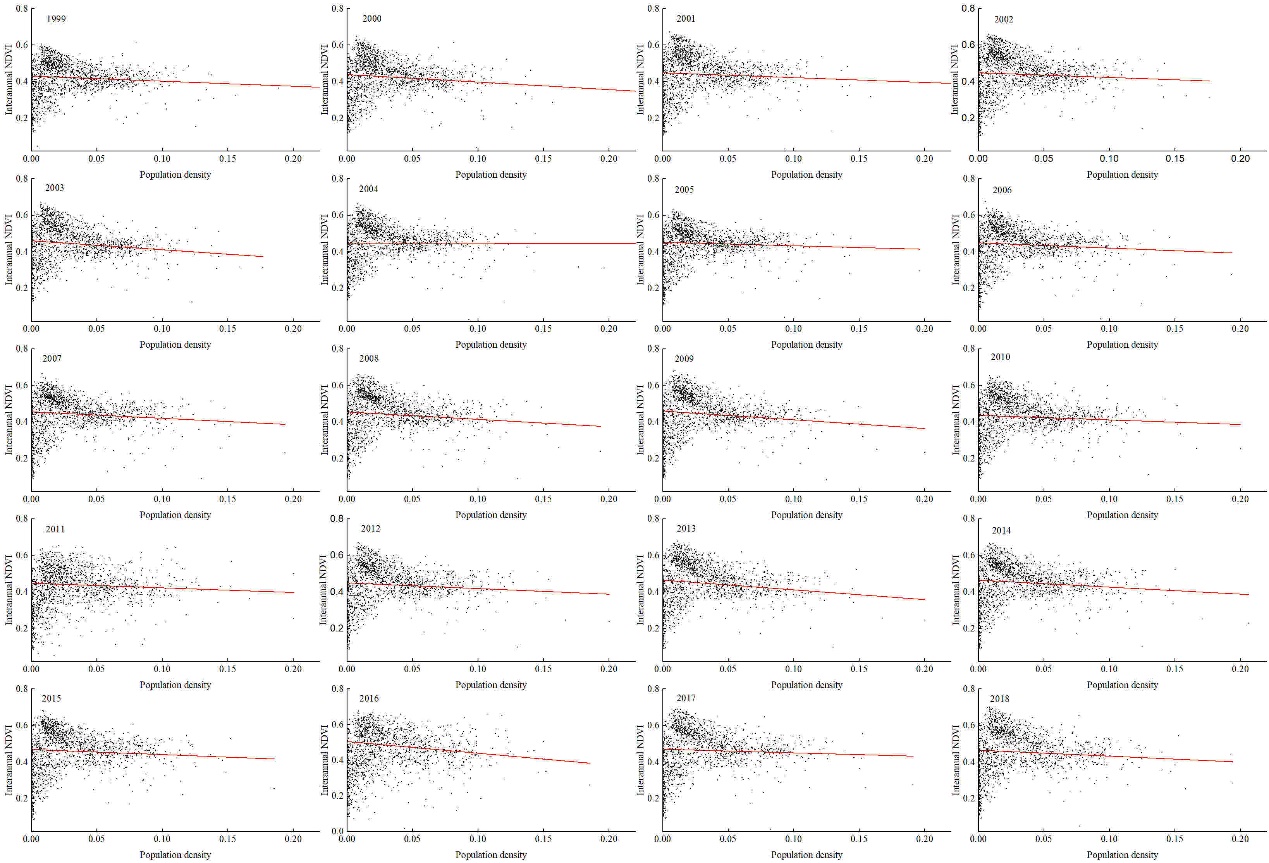
**FIGURE S1** Location map of study area

|  |  |
| --- | --- |
|  |  |
| China | Central China |
|  |  |
| East China | North China |
|  |  |
| Northeast China | Northwest China |
|  |  |
| South China | Southwest China |

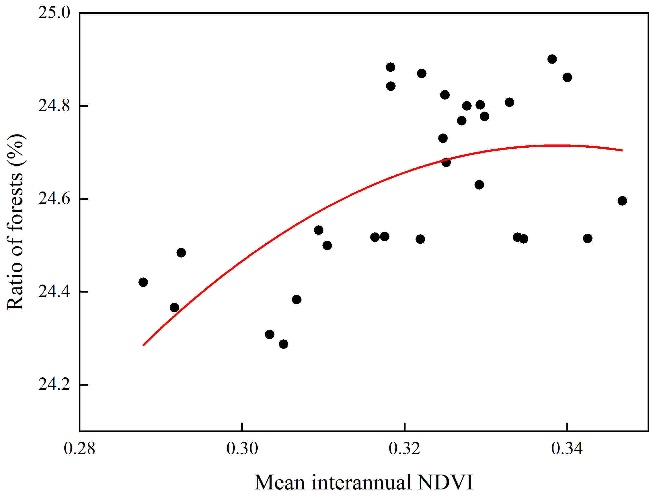
**FIGURE S2** Breakpoint detection using the BFAST algorithm



**FIGURE S3** Relationship between the amount of CO2 emission and NDVI



**FIGURE S4** Relationship between population density and NDVI



**FIGURE S5** Relationship between the ratio of forests and NDVI