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### Giant Panda Conservation and Bamboo Forest Destruction

Julian J.N. Campbell

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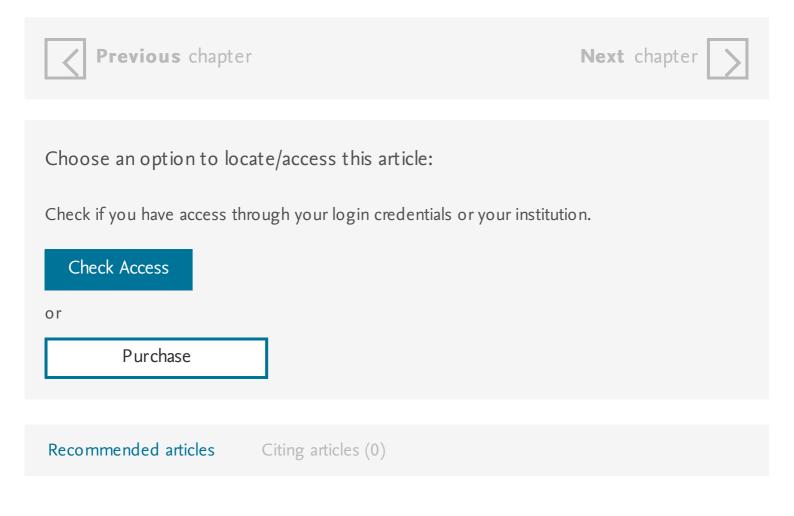
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#### **Abstract**

The mountains around Sichuan contain richer biological diversity than any other temperate region. But in recent centuries, human exploitation has accelerated up from subtropical lowlands, removing most temperate forest. Disturbance is generally excessive for larger mammals of subtropical-warm temperate zones, and now there *are* threats to those of cool temperate-subalpine zones. The cool temperate zone is wettest, favoring extensive bamboo within the forest. Bamboo is virtually the only food of giant pandas, and this species' range has been reduced by roughly half in the past century. Though much cool zone bamboo remains, patches of larger warm zone bamboos may be needed as well for seasonal use and long-term dynamics. In the past decade at least, decline of giant pandas has been precipitated by periods of bamboo flowering and mortality. Monocarpic life-cycles are a natural feature of bamboos, and flowering may be somewhat synchronous with dry climatic periods. Deforestation has reduced the diversity of alternative bamboos available for emergency use after such

events. To resolve the many problems concerned with nature conservation in these mountains â€" taxonomic, demographic, ecosystematic and socioeconomic â€" much more interdisciplinary and international cooperation will be needed. There may be hope that recent centralization of planning in China can extend better land-use to the provinces, and that communication problems with western conservationists can be overcome.



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