

Abstract

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Development of Software Tools for Ecological Field Studies Using ArcPad

Track: Ecology, Archaeology, and Conservation

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Integration of data collection, statistical analysis, and dynamic modeling in ecology requires new hardware and software tools that offer mobile data management together with the implementation of advanced calculation methods. Recent advances in mobile computing such as mobile devices and ArcPad make possible the automation of a number of procedures. In addition to the mapping of spatial and temporal attributes of ecological systems, the statistical methods and dynamic models can be used to estimate new features and impacts of man-made activities. The software tools include estimates of population, community, and ecosystem parameters. The estimates are extended by numerical models.

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