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Ecosystem services depend on the earth system processes taking place over a range of spatial-temporal scales. The significant dominant effect of ecosystem processes and ecosystem services can only be expressed in particular spatial-temporal scale. Stakeholders at different institutional scales attach different values to ecosystem services at different ecological scales. Generally, product-providing services have close relationships with the benefits of local people, regulating and supporting services tend to have close relationships with the benefits of people at regional, national, and even global scales, and cultural services have close relationships with the stakeholders from local to global scales. Sometimes, there exists contradiction between ecosystem services across different scales, which leads to different ecosystem management strategies. This paper discussed the spatial characteristics of ecosystem services, and probed into the relationships between the ecosystem services at different spatial scales and the stakeholders at different institutional scales, as well as their implications in ecosystem services evaluation, ecological compensation, and ecosystem management.

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