



A theoretical model for assessing the sustainability Of ecosystem services



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doi : **Abstract** : The Value of the World's Ecosystem Services and Natural Capital by Costanza in 1997 is generally regarded as a monument for the research of valuing ecosystem services. However, the classification of ecosystem services, the method of various services summation and the purpose for static global value had be confronted by many criticisms. Based on the summary of these criticisms, suggestions, related function assessment and further study direction, the sustainability of ecosystem services is presented The two basic indicators in ecology, productivity and biodiversity, respectively charactering the ability of producing and self-organizing, not only represent the internal function of ecosystem, but also are proportioned to its external function of supporting and providing for human life On presenting the general form of ecosystem services assessment, this paper improves the mathematical formula giving a function adjusting coefficient composed of productivity and biodiversity. Theoretically, the integration of the two indicators reflects the changes of ecosystem services at spatial and temporal scales, can physically assess the sustability of ecosystem services, and build a firm scientific fundament of value assessment for ecosystem services Objectively, its application should be strictly tested in next step.Ecosystem services; theoretical model; Sustainability; Bio-productivity; Biodiversity

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