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### Measurement of terrestrial ecosystem service value in China (PMID:16180767)

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Measurement of terrestrial ecosystem service value in China. hehao@ires.cn

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Abstract

Highlight Terms

No biological terms identified

With the measurement of net primary productivity and vegetation coverage fraction based on remote sensing data, the terrestrial ecosystem service value of China in 2000 was quantitatively estimated as 9.17 x 10<sup>12</sup> yuan (RMB). The spatial distribution of the ecological service value showed a decreasing trend from southeast China to northwest China, which was consistent with the regional distribution of vegetation types. The service value varied with different vegetations, e. g., forests had the highest service value of 18 789 yuan x hm<sup>-2</sup>, accounting for 40.80% of the total terrestrial ecosystem service value, and bushes and farmlands had a higher service value of 13 789 yuan x hm<sup>-2</sup> and 13054 yuan x hm<sup>-2</sup>, which was 10.79% and 24.23% of total value, respectively. The service value was also varied with different ecosystem functions, i.e., gas regulation contributed the highest value of 45.16% to the total service value, and the contribution of soil conservation and water conservation was 28.83% and 14.44%, respectively. The integrated approach coupling ecology and remote sensing data provided a new method to measure the ecological service value, which could estimate the value objectively and spatially explicitly. However, some uncertainties still existed in this approach, which should be improved in the future studies.

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