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The value of the ecosystem services and method

Abstract

Using the method of Constanza R, the annual value of ecosystem services of Macao was 3.302×10^6 US dollars in 1983, equivalent to 26.5250×10^6 MOP, when using the currently monetary valuation. The annual value of ecosystem services of Macao was 8.3340×10^6 US dollars in 2002, equal to 66.9472×10^6 MOP. The total globe annual value of ecosystem sendees was 3.3268×10^{13} US dollars in 1997, i.e., about 5,544.7 US dollars per capita. In Macao, the annual value of ecosystem services was only 18.8 US dollars per capita. The average ecosystem service per capita was 0.35% of the world average level. Comparing to the globe average ecosystem services level per capita, the deficit of ecosystem services of Macao is 2.44×10^9 US dollars for Macao population, which would require 1,069 km² estuary to complement to the deficit, i.e., about 38 times of Macao to provide ecosystem services to reach the average level of world.



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