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Valuation of the Ecological Service of Regulating Climate of Ebinur-Lake Wetland

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An important ecological function of wetland is to increase air humidity and to cool down air temperature. This is particularly evident for the wetland in arid areas. The large amount of evaporation from the water surface and the strong transpiration from the dense vegetation cover of the wetland are the major causes for this climatic buffering function. By calculating the annual evaporation and transpiration of the Ebinur lake wetland, the annual cost of ecological service of climatic buffering was estimated at 97788.86×10^4 , accounting for 31.9% of the total value of the ecological services and the largest among other ecological services of the wetland. Results indicated that the function of climatic buffering is the most important ecological function of Ebinur lake wetland in extremely draught conditions.

【Key Words】 : **Ebinur lake wetland Regulating climate Value of ecological service**

【Fund】 : 国家自然科学基金西部重大计划研究项目“新疆艾比湖流域社会经济与生态系统可持续发展模式研究”资助(批准号:90302012)。

【CateGory Index】 : X37



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