

# On Wetland Protection and Tourism Sustainable Development

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**Abstract.** *This paper introduces the environmental characteristics of wetland, analyzes the significance of wetland ecotourism development, puts forward some principles of wetland tourism development, and constructs the sustainable development model of wetland and tourism.*

**Keywords:** Wetland protection; Tourism; Sustainable development

## Introduction :

Wetland is an important ecosystem on earth, wetland protection and sustainable development is an important sign of the level of ecological civilization construction of an area. Nearly half a century, over exploitation of wetland has brought a series of problems. Mainly in: the disappearance of wetlands, wetland area decreased continuously; wetland habitat is increasingly widespread wetland fragmentation; pollution; eutrophication problems. These problems have attracted more and more attention.

## Characteristics of wetland environment

**Definition of wetland** Wetland refers to the intersection of land and water area . There is a temporary or permanent shallow water accumulation on the surface . There are many aquatic plants in the area , mainly including shallow lake , swamp , wet grassland , river delta , coastal beach and inland low land . It is well known that the wetland is the kidney of the earth , which has a great influence on the wetland conservation , and the protection of the wetland is significant . The wetland is an important social and economic resource , and the reasonable development of ecotourism can produce good social and economic benefits .

**Environmental Characteristics of Wetland** Wetland is suitable for animals to live in because of the intersection of water and land. The plant length and wetland wildlife resources are very rich, and its rare and endangered species are various, and have biodiversity.

## The Significance of Wetland Eco - tourism Development

**Value of sightseeing** The endless water surface and the natural scenery of the land and water, as well as a variety of organisms, especially some rare waterfowl, are very attractive to tourists,

can be said to be a collection of leisure, sightseeing. Water recreation and other leisure and entertainment as one of the tourist resorts.

**The value of scientific investigation** Wetland is a unique landscape with a unique ecosystem and natural landscape that attracts a large number of geoscience , ecology and environmental scientists or scholars .

**The function of environmental education** From the maintenance of ecological coordination, the virtuous cycle of the natural environment or biological diversity and other perspectives. Wetland has a very important environmental significance. WwW.11665.coM in the wetland tourism activities not only let tourists enjoy, explore and recognize the nature, but also for tourists to carry out popular science education. Let the tourists take the wetland environment as the living teaching material to disseminate the related knowledge of environmental protection while sightseeing.

## Principles of Wetland Tourism Development

**Sustainable development** The principle of sustainable development is, in general, "the development that not only satisfies the needs of the present generation, but also does not threaten the ability of future generations to meet their needs". The eco-tourism of wetlands must strictly implement the scientific development. We should follow the idea of sustainable development, combine tourism development with tourism, and make joint efforts for the ecological environment construction and protection of wetlands, and strive for the unity of economic, social and ecological benefits.

**Unified organization , development and implementation of scientific tourism development planning** Wetland ecological tourism development should be carried out in the science of tourism planning, because wetland eco-tourism development is complicated system engineering, the development must take into account the ecological sensitivity of the wetland ecosystem, the ability of self regulating and wetland ecological environment is fragile. The characteristics of wetland eco-tourism development will make these preparations in advance, to do the development goals, direction and scale of development planning, so as to avoid blind development and the destruction of wetland ecological environment and resources.

**Increase the input of Science and Technology, improve the Ecological function of Wetlands and strive for the Construction of High quality Eco-tourism sites** Wetland tourism development is an inevitable trend in the development of wetland, and achieve cost-effective but blind, integrity of the backward development will not only destroy the wetland resources, is not conducive to the protection of the environment, so the wetland development should increase investment in science and technology and to adhere to a high starting point, high quality and high standards of these principles, this it can create a high quality and outstanding wetland tourism brand, to establish a good image of wetland tourism.

**Highlight key points and distribute implementation** Wetland tourism development should focus and implementation of distribution, because if the development level of primary and secondary analysis will cause the blind development of wetland is not high, will lead to human, material and financial waste. The waste or minor, if unreasonable development will cause great damage to the wet environment, resulting in resource utilization low, will make the final development of the wetland tourism and expected economic, social and ecological benefits of the great discrepancy.

#### **Harmonious Development of Wetland and Sustainable Development Mode of Tourism**

**Rational zonation of wetland reserve** Wetland protected areas should be divided into core areas in strict accordance with the regulations of nature reserves in China. Buffer zones and test zones. The core area shall not allow any unauthorized individual or unit to enter. The perimeter of the core area may be designated as part of the buffer zone. Some scientific research activities can be allowed in the buffer zone, and the periphery of the buffer zone is a pilot area, where scientific experiments, teaching practice, tourism and other activities can be allowed.

**Taking concrete measures to protect Wetlands** Take specific measures to protect the wetland as far as possible to relocate the residents living in the wetland, to the relocation of residents to give certain subsidies; Unable to move households should help and guide them to adopt a low-carbon lifestyle, as far as possible the use of natural gas or biogas and other environmentally friendly fuels, for domestic waste to be scientific and effective treatment. Minimize water pollution to wetlands. Fuel used in wetland transportation should also be changed to natural gas, reducing the use of gasoline or diesel.

**Further development of tourism resources** In the development of tourism resources to highlight the natural scenery of wetlands, to advocate eco-tourism, without destroying the ecological balance and local biological resources under the conditions of reasonable development of characteristic tourism.

**Establishment of transfer zones for foreign vehicles** The use of gasoline or diesel oil in cars will produce the corresponding exhaust gas, which will damage the wetland environment. Therefore, the only way to enter the wetland protection area is to establish a foreign vehicle transfer zone, in which electric vehicles should be used to reduce the air pollution and environmental pollution caused by fuel in the wetland core area.

Wetland protection and tourism development should focus on the long-term point, wetland is not an independent region, its relationship with the surrounding is more, we should do a good job of wetland surrounding cities and wetland environment complementary, cultural complementarity. It is necessary to strengthen the development of wetlands, improve their cultural level, and do a good job in the construction of deep-seated cultural content, literary performances and folklore construction and other aspects of tourism innovation construction. These will enable wetland reserves to attract more tourists, thereby creating more economic benefits.

#### **Conclusion**

Wetland can be said to be the kidney of the earth, the protection of wetland is very important to our country, but also is a very important part of the global sustainable development. Combining wetland protection with ecotourism, not only can realize the social and economic benefits. This paper discusses the sustainable development of wetland protection and ecotourism, which is a beneficial exploration for the protection and development of wetland in China.

#### **References**

- i. Qingsong Llu. *Wetland and protection [J]. China Environmental Science Press, 2013,*
- ii. Zhongqiao Fan. *Wetland protection and Ecotourism [J]. urban construction, 2014*
- iii. Yumei Bai. *Wetlands status in china [J]. JWater Resources of China, 2015, 6*
- iv. Weixuan Zhang. *Study on Protection and Sustainable Development of Wetland Resources [J]. Shelterbelt science and technology, 2016*